



December 21, 2006

STL Sacramento
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West Sacramento, CA 95605

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STL SACRAMENTO PROJECT NUMBER: G6K210180

PO/CONTRACT: 129682.001/Event 110

Guy Graening
Brown and Caldwell
10540 White Rock Road
Suite 180
Rancho Cordova, CA 95670

Dear Mr. Graening,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on November 21, 2006. These samples are associated with your 21243 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

A handwritten signature in black ink, appearing to read "Karen Dahl".

Karen Dahl
Project Manager

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CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G6K210180

AIR, PM-10

The final weight for sample 4 was less than its initial weight so this result was reported as 'ND'.

There were no other anomalies associated with this project.

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon*	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	04-067-0	South Carolina	87014002
California*	01119CA	Texas	TX 270-2004A
Colorado	NA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613
New York*	11666		

*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Sample Summary

G6K210180

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
JJ57V	1	P-0800	11/14/2006 11:25 AM	11/21/2006 08:30 AM
JJ57X	2	P-0801	11/14/2006 11:45 AM	11/21/2006 08:30 AM
JJ570	3	P-0802	11/14/2006 12:05 PM	11/21/2006 08:30 AM
JJ571	4	P-0803	11/14/2006 11:50 AM	11/21/2006 08:30 AM
JJ573	5	000576	11/14/2006 12:10 PM	11/21/2006 08:30 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

BROWN AND CALDWELL

G6K210180

CHAIN OF CUSTODY RECORD

COC No.

3264 Goni Road / Suite 153
Carson City, NV 89706
775-883-4118 / FAX 775-883-5108

4425 W. Spring Mountain Road / Suite 225
Las Vegas, NV 89102
702-938-4080 / FAX 702-938-4082

201 East Washington Street / Suite 5
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Air Qlty
PROJECT NUMBER: 121243

LABORATORY NAME & ADDRESS: SEVERN TRENT LABS., WEST SACRAMENTO,

LINE NO.	SAMPLE - I.D.	COLLECTION DATE	TIME	SAMPLES	NUMBER OF CONTAINERS	CONTAINER TYPE	SIZE AND CODE	PRESER-	ANALYSES REQUESTED	FIELD FILTERED	DC - REQ	SAMPLING METHOD	DEPTH (FT.) BEGIN	END	ID READING (ppm)
01	P-0810	11/11/03	MS	1	8x10 Filter	NONE	A		PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Cu,Mn,Ni), Sulfate		0.28		----		
02	P-0801	11/11/03	15	1	8x10 Filter	NONE	A		PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Cu,Mn,Ni), Sulfate		0.30		----		
03	P-0802	12/03	12:05	1	8x10 Filter	NONE	A		PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Cu,Mn,Ni), Sulfate		0.30		----		
04	P-0803	11/10	150	1	8x10 Filter	NONE	A		PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Cu,Mn,Ni), Sulfate		0.33		----		
05	P-0805	12/03	12:10	1	8x10 Filter	NONE	A		TSP, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Cu,Mn,Ni), Sulfate		0.22		----		
06															
07															
08															
09															
10															
RECEIVED BY:															
RECORD RETURNED BY:															
COURIER:															

COMMENTS (see note on back):

Effos Project #: MKF-MY3
Phase: 30 - Prelim Assessment
Subphase: 03 - Analytical
1st Element: 05 Subsample
Costs

DISTRIBUTION: WHITE - PROJECT FILE • CANARY - LAB RECEIPT • PINK - DATA MANAGEMENT • GOLDENROD - FIELD
 USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

SEVERN
TRENT

STL

LOT RECEIPT CHECKLIST
STL Sacramento

CLIENT Brown & Caldwell PM KP LOG # 412378

LOT# (QUANTIMS ID) G6K210189 QUOTE# 1621684 LOCATION AC

DATE RECEIVED 11/2/06 TIME RECEIVED 8:30

Initials JM

Date 11/2

DELIVERED BY FEDEX CA OVERNIGHT CLIENT
 AIRBORNE GOLDENSTATE DHL
 UPS BAX GLOBAL GO-GETTERS
 STL COURIER COURIERS ON DEMAND
 OTHER

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) n/a

SHIPPING CONTAINER(S) STL CLIENT N/A

TEMPERATURE RECORD (IN °C) IR 1 3 OTHER n/a

COC #(S) n/a

TEMPERATURE BLANK Observed: n/a Corrected: _____

SAMPLE TEMPERATURE

Observed: Am Bent Average: _____ Corrected Average: _____

COLLECTOR'S NAME: Verified from COC Not on COC

pH MEASURED YES ANOMALY N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM N/A

VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

Clouseau TEMPERATURE EXCEEDED (2 °C – 6 °C)* N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED

PM NOTIFIED

Notes: _____

*1 Acceptable temperature range for State of Wisconsin samples is $\leq 4^{\circ}\text{C}$.

Lot

ID:

G6K210189

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
____CT																				
Encore																				
Folder/filter	/	/	/	/	/															
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide

n = nitric acid

zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

AIR, 6020, Metals

Brown and Caldwell

Client Sample ID: P-0800

TOTAL Metals

Lot-Sample #....: G6K210180-001

Matrix.....: AIR

Date Sampled....: 11/14/06

Date Received...: 11/21/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....:	6338322					
Aluminum	159 B	240	ug	SW846 6020	12/05-12/08/06	JJ57V1AC
		Dilution Factor: 1		MDL.....: 120		
Arsenic	ND	2.9	ug	SW846 6020	12/05-12/08/06	JJ57V1AD
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	0.087 B	1.2	ug	SW846 6020	12/05-12/08/06	JJ57V1AE
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	ND	2.4	ug	SW846 6020	12/05-12/08/06	JJ57V1AF
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	2.5 B	2.9	ug	SW846 6020	12/05-12/08/06	JJ57V1AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	5.0 B	6.0	ug	SW846 6020	12/05-12/08/06	JJ57V1AH
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	7.1	6.0	ug	SW846 6020	12/05-12/08/06	JJ57V1AJ
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	1.2 B	6.0	ug	SW846 6020	12/05-12/08/06	JJ57V1AK
		Dilution Factor: 1		MDL.....: 1.2		

NOTE(S) :

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0801

TOTAL Metals

Lot-Sample #....: G6K210180-002

Matrix.....: AIR

Date Sampled....: 11/14/06

Date Received...: 11/21/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 6338322						
Aluminum	163 B	240	ug	SW846 6020 Dilution Factor: 1	MDL.....: 120	12/05-12/08/06 JJ57X1AC
Arsenic	0.93 B	2.9	ug	SW846 6020 Dilution Factor: 1	MDL.....: 0.89	12/05-12/08/06 JJ57X1AD
Cadmium	0.11 B	1.2	ug	SW846 6020 Dilution Factor: 1	MDL.....: 0.028	12/05-12/08/06 JJ57X1AE
Cobalt	ND	2.4	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.3	12/05-12/08/06 JJ57X1AF
Chromium	2.4 B	2.9	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.3	12/05-12/08/06 JJ57X1AG
Copper	12.1	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 1.3	12/05-12/08/06 JJ57X1AH
Manganese	6.3	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.0	12/05-12/08/06 JJ57X1AJ
Nickel	ND	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 1.2	12/05-12/08/06 JJ57X1AK

NOTE (S) :

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0802

TOTAL Metals

Lot-Sample #....: G6K210180-003

Matrix.....: AIR

Date Sampled...: 11/14/06

Date Received..: 11/21/06

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #....: 6338322							
Aluminum	ND	240	ug	SW846 6020	MDL.....: 120	12/05-12/08/06	JJ5701AC
		Dilution Factor: 1					
Arsenic	ND	2.9	ug	SW846 6020	MDL.....: 0.89	12/05-12/08/06	JJ5701AD
		Dilution Factor: 1					
Cadmium	0.12 B	1.2	ug	SW846 6020	MDL.....: 0.028	12/05-12/08/06	JJ5701AE
		Dilution Factor: 1					
Cobalt	ND	2.4	ug	SW846 6020	MDL.....: 2.3	12/05-12/08/06	JJ5701AF
		Dilution Factor: 1					
Chromium	2.3 B	2.9	ug	SW846 6020	MDL.....: 2.3	12/05-12/08/06	JJ5701AG
		Dilution Factor: 1					
Copper	8.2	6.0	ug	SW846 6020	MDL.....: 1.3	12/05-12/08/06	JJ5701AH
		Dilution Factor: 1					
Manganese	4.6 B	6.0	ug	SW846 6020	MDL.....: 2.0	12/05-12/08/06	JJ5701AJ
		Dilution Factor: 1					
Nickel	ND	6.0	ug	SW846 6020	MDL.....: 1.2	12/05-12/08/06	JJ5701AK
		Dilution Factor: 1					

NOTE (S) :

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0803

TOTAL Metals

Lot-Sample #....: G6K210180-004

Date Sampled....: 11/14/06

Date Received...: 11/21/06

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....:	6338322					
Aluminum	ND	240	ug	SW846 6020 Dilution Factor: 1	MDL.....: 120	12/05-12/08/06 JJ5711AC
Arsenic	ND	2.9	ug	SW846 6020 Dilution Factor: 1	MDL.....: 0.89	12/05-12/08/06 JJ5711AD
Cadmium	0.076 B	1.2	ug	SW846 6020 Dilution Factor: 1	MDL.....: 0.028	12/05-12/08/06 JJ5711AE
Cobalt	ND	2.4	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.3	12/05-12/08/06 JJ5711AF
Chromium	2.3 B	2.9	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.3	12/05-12/08/06 JJ5711AG
Copper	1.7 B	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 1.3	12/05-12/08/06 JJ5711AH
Manganese	ND	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.0	12/05-12/08/06 JJ5711AJ
Nickel	ND	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 1.2	12/05-12/08/06 JJ5711AK

NOTE(S) :

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: 000576

TOTAL Metals

Lot-Sample #....: G6K210180-005
Date Sampled....: 11/14/06

Date Received...: 11/21/06

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....:	6338322					
Aluminum	272	240	ug	SW846 6020 Dilution Factor: 1	MDL.....: 120	12/05-12/08/06 JJ5731AC
Arsenic	0.99 B	2.9	ug	SW846 6020 Dilution Factor: 1	MDL.....: 0.89	12/05-12/08/06 JJ5731AD
Cadmium	0.10 B	1.2	ug	SW846 6020 Dilution Factor: 1	MDL.....: 0.028	12/05-12/08/06 JJ5731AE
Cobalt	ND	2.4	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.3	12/05-12/08/06 JJ5731AF
Chromium	2.8 B	2.9	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.3	12/05-12/08/06 JJ5731AG
Copper	40.6	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 1.3	12/05-12/08/06 JJ5731AH
Manganese	14.3	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.0	12/05-12/08/06 JJ5731AJ
Nickel	1.4 B	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 1.2	12/05-12/08/06 JJ5731AK

NOTE(S) :

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

G6K210180

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	SW846 6020		6338322	
002	AIR	SW846 6020		6338322	
003	AIR	SW846 6020		6338322	
004	AIR	SW846 6020		6338322	
005	AIR	SW846 6020		6338322	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: G6K210180

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MB Lot-Sample #: G6L040000-322 Prep Batch #....: 6338322						
Aluminum	ND	240	ug	SW846 6020	12/05-12/08/06	JKQP31AA
		Dilution Factor: 1				
Arsenic	ND	2.9	ug	SW846 6020	12/05-12/08/06	JKQP31AC
		Dilution Factor: 1				
Cadmium	ND	1.2	ug	SW846 6020	12/05-12/08/06	JKQP31AD
		Dilution Factor: 1				
Chromium	ND	2.9	ug	SW846 6020	12/05-12/08/06	JKQP31AF
		Dilution Factor: 1				
Cobalt	ND	2.4	ug	SW846 6020	12/05-12/08/06	JKQP31AE
		Dilution Factor: 1				
Copper	ND	6.0	ug	SW846 6020	12/05-12/08/06	JKQP31AG
		Dilution Factor: 1				
Manganese	ND	6.0	ug	SW846 6020	12/05-12/08/06	JKQP31AH
		Dilution Factor: 1				
Nickel	ND	6.0	ug	SW846 6020	12/05-12/08/06	JKQP31AJ
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #....: G6K210180

Matrix.....: AIR

PARAMETER	SPIKE	MEASURED	UNITS	PERCNT		METHOD	PREPARATION-	PREP
	AMOUNT	AMOUNT		RECVRY	RPD		ANALYSIS DATE	BATCH #
Aluminum	1200	1020	ug	85		SW846 6020	12/05-12/08/06	6338322
	1200	1050	ug	87	3.0	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1								
Arsenic	240	210	ug	88		SW846 6020	12/05-12/08/06	6338322
	240	217	ug	90	3.0	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1								
Cadmium	240	213	ug	89		SW846 6020	12/05-12/08/06	6338322
	240	219	ug	91	3.0	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1								
Chromium	240	219	ug	91		SW846 6020	12/05-12/08/06	6338322
	240	225	ug	94	2.8	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1								
Cobalt	240	219	ug	91		SW846 6020	12/05-12/08/06	6338322
	240	226	ug	94	3.4	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1								
Copper	240	221	ug	92		SW846 6020	12/05-12/08/06	6338322
	240	227	ug	95	2.4	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1								
Manganese	240	224	ug	93		SW846 6020	12/05-12/08/06	6338322
	240	231	ug	96	3.1	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1								
Nickel	240	226	ug	94		SW846 6020	12/05-12/08/06	6338322
	240	232	ug	97	2.4	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1								

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #....: G6K210180

Matrix.....: AIR

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	PREP-
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	BATCH #
Aluminum	85	(75 - 125)		SW846 6020	12/05-12/08/06	6338322
	87	(75 - 125) 3.0	(0-20)	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1						
Arsenic	88	(75 - 125)		SW846 6020	12/05-12/08/06	6338322
	90	(75 - 125) 3.0	(0-20)	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1						
Cadmium	89	(75 - 125)		SW846 6020	12/05-12/08/06	6338322
	91	(75 - 125) 3.0	(0-20)	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1						
Chromium	91	(75 - 125)		SW846 6020	12/05-12/08/06	6338322
	94	(75 - 125) 2.8	(0-20)	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1						
Cobalt	91	(75 - 125)		SW846 6020	12/05-12/08/06	6338322
	94	(75 - 125) 3.4	(0-20)	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1						
Copper	92	(75 - 125)		SW846 6020	12/05-12/08/06	6338322
	95	(75 - 125) 2.4	(0-20)	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1						
Manganese	93	(75 - 125)		SW846 6020	12/05-12/08/06	6338322
	96	(75 - 125) 3.1	(0-20)	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1						
Nickel	94	(75 - 125)		SW846 6020	12/05-12/08/06	6338322
	97	(75 - 125) 2.4	(0-20)	SW846 6020	12/05-12/08/06	6338322
Dilution Factor: 1						

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

AIR, 9056, Sulfate

Brown and Caldwell

Client Sample ID: P-0800

General Chemistry

Lot-Sample #....: G6K210180-001 Work Order #....: JJ57V Matrix.....: AIR
Date Sampled....: 11/14/06 Date Received...: 11/21/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	8.4 J	0.48	mg	SW846 9056	12/06/06	6340337

Dilution Factor: 12 MDL.....: 0.048

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0801

General Chemistry

Lot-Sample #....: G6K210180-002 Work Order #....: JJ57X Matrix.....: AIR
Date Sampled....: 11/14/06 Date Received...: 11/21/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION - ANALYSIS DATE	PREP BATCH #
Sulfate	7.2 J	0.48	mg	SW846 9056	12/06/06	6340337
		Dilution Factor: 12		MDL.....: 0.048		

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0802

General Chemistry

Lot-Sample #....: G6K210180-003 Work Order #....: JJ570 Matrix.....: AIR
Date Sampled....: 11/14/06 Date Received...: 11/21/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	3.2 J	0.48	mg	SW846 9056	12/06/06	6340337

Dilution Factor: 12 MDL.....: 0.048

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0803

General Chemistry

Lot-Sample #....: G6K210180-004 Work Order #....: JJ571 Matrix.....: AIR
Date Sampled....: 11/14/06 Date Received...: 11/21/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	0.090 B,J	0.48	mg	SW846 9056	12/06/06	6340337

Dilution Factor: 12 MDL.....: 0.048

NOTE (S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000576

General Chemistry

Lot-Sample #....: G6K210180-005 Work Order #....: JJ573 Matrix.....: AIR
Date Sampled...: 11/14/06 Date Received...: 11/21/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Sulfate	7.8 J	0.48	mg	SW846 9056	12/06/06	6340337
		Dilution Factor: 12			MDL.....: 0.048	

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QC DATA ASSOCIATION SUMMARY

G6K210180

Sample Preparation and Analysis Control Numbers

<u>SAMPLE #</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	SW846 9056		6340337	
	AIR	CFR50J APDX J		6335224	
	AIR	SW846 6020		6338322	
002	AIR	SW846 9056		6340337	
	AIR	CFR50J APDX J		6335224	
	AIR	SW846 6020		6338322	
003	AIR	SW846 9056		6340337	
	AIR	CFR50J APDX J		6335224	
	AIR	SW846 6020		6338322	
004	AIR	SW846 9056		6340337	
	AIR	CFR50J APDX J		6335224	
	AIR	SW846 6020		6338322	
005	AIR	CFR50B APDX B		6335223	
	AIR	SW846 9056		6340337	
	AIR	SW846 6020		6338322	

METHOD BLANK REPORT

General Chemistry

Client Lot #....: G6K210180

Matrix.....: AIR

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	PREP
		LIMIT	UNITS				
Sulfate	0.19 B	Work Order #:	JKW4K1AA	MB Lot-Sample #:	G6L060000-337	12/06/06	6340337
		0.48	mg	SW846 9056			
		Dilution Factor:	12				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #....: G6K210180

Matrix.....: AIR

PARAMETER	SPIKE	MEASURED		PERCNT			METHOD	PREPARATION-	PREP
	AMOUNT	AMOUNT	UNITS	RECVRY	RPD				
Sulfate		WO#:JKW4K1AC-LCS/JKW4K1AD-LCSD						LCS	Lot-Sample#: G6L060000-337
	4.80	4.84	mg	101		SW846 9056		12/06/06	6340337
	4.80	4.80	mg	100	0.94	SW846 9056		12/06/06	6340337
	Dilution Factor: 1								

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #....: G6K210180

Matrix.....: AIR

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	PREP	BATCH #
	RECOVERY	LIMITS	RPD		LIMITS	ANALYSIS DATE	
WO#:JKW4K1AC-LCS/JKW4K1AD-LCSD LCS Lot-Sample#: G6L060000-337							
Sulfate	101	(85 - 115)		SW846 9056		12/06/06	6340337
	100	(85 - 115)	0.94 (0-15)	SW846 9056		12/06/06	6340337
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

AIR, PM-10 & TSP

Brown and Caldwell

Client Sample ID: P-0800

General Chemistry

Lot-Sample #....: G6K210180-001 Work Order #....: JJ57V Matrix.....: AIR
Date Sampled....: 11/14/06 Date Received...: 11/21/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Particulate Matter as PM10	0.0116	0.0001	g	CFR50J APDX J	11/28-11/30/06	6335224

Brown and Caldwell

Client Sample ID: P-0801

General Chemistry

Lot-Sample #....: G6K210180-002 Work Order #....: JJ57X Matrix.....: AIR
Date Sampled....: 11/14/06 Date Received...: 11/21/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Particulate Matter as PM10	0.0063	0.0001	g	CFR50J APDX J	11/28-11/30/06	6335224

Brown and Caldwell

Client Sample ID: P-0802

General Chemistry

Lot-Sample #....: G6K210180-003 **Work Order #....:** JJ570 **Matrix.....:** AIR
Date Sampled....: 11/14/06 **Date Received...:** 11/21/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Particulate Matter as PM10	0.0003	0.0001	g	CFR50J APDX J	11/28-11/29/06	6335224

Brown and Caldwell

Client Sample ID: P-0803

General Chemistry

Lot-Sample #....: G6K210180-004 Work Order #....: JJ571 Matrix.....: AIR
Date Sampled....: 11/14/06 Date Received...: 11/21/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Particulate Matter as PM10	ND	0.0001	g	CFR50J APDX J	11/28-11/29/06	6335224

Brown and Caldwell

Client Sample ID: 000576

General Chemistry

Lot-Sample #....: G6K210180-005 Work Order #....: JJ573 Matrix.....: AIR
Date Sampled....: 11/14/06 Date Received...: 11/21/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>	<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Total Suspended Particulates	0.0221	0.0001	g	CFR50B APDX B	11/28-11/30/06			6335223

AIR, 6020, Metals

Raw Data Package

ICPMS

SEVERN
TRENT

STL

STL Sacramento
ICP-MS Data Review Checklist
Level I and Level II

Instrument ID (Circle one): M01 M02		Method 6020 SOP SAC-MT-0001		
File Number <i>G6K203b1 4106</i>	Batch Numbers <i>6338322, 6342033, 6341041, 6341054, 6340034, 6339039</i>	Date <i>12/8/06</i>	Analyst <i>BEV</i>	
Lot Numbers <i>G6K210180, G6K220186, G6L070146, G6L060147, G6L060132, G6L290203, G6L010156, G6K300163, G6L040139</i>			YES	NO
1. Copy of analysis protocol used included? <input checked="" type="checkbox"/> 2. ICVs & CCVs within 10% of true value or recal and rerun? <input checked="" type="checkbox"/> 3. ICB & CCBs < reporting limit or recal and rerun? <input checked="" type="checkbox"/> 4. 10 samples or less analyzed between calibration checks? <input checked="" type="checkbox"/> 5. All parameters within linear range? <input checked="" type="checkbox"/> 6. LCS/LCSD within limits? <input checked="" type="checkbox"/> 7. Prep blank value < reporting limit or all samples >20x blank? <input checked="" type="checkbox"/> 8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities? <input checked="" type="checkbox"/> 9. Appropriate dilution factors applied to data? _____ <input checked="" type="checkbox"/> 10. Matrix spike and spike dup within customer defined limits? _____ <input checked="" type="checkbox"/> 11. Each batch checked for presence of internal standard in samples? <input checked="" type="checkbox"/> 12. Anomalies entered using Clouseau? _____ <input checked="" type="checkbox"/>				

COMMENTS: _____

REVIEWED BY:

DATE:

DATA ENTERED BY: BEV

DATE: 12/10/06

Dataset Report

Perkin Elmer ICPMS M01

User Name: JonesB

Computer Name: SACP317A

Dataset File Path: c:\elandata\dataset\061208b1\

Report Date/Time: Sunday, December 10, 2006 17:14:46

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	Rinse 3X	15:02:22 Fri 08-Dec-06	Sample	
	Blank	15:06:35 Fri 08-Dec-06	Blank	
	Standard 1	15:10:43 Fri 08-Dec-06	Standard #1	
	ICV	15:14:35 Fri 08-Dec-06	Sample	
	ICB	15:18:31 Fri 08-Dec-06	Sample	
	LL STD 10X	15:22:28 Fri 08-Dec-06	Sample	LL STD 10X
	LL STD 5X	15:25:47 Fri 08-Dec-06	Sample	LL STD 5X
	ICSA	15:30:53 Fri 08-Dec-06	Sample	
	ICSAB	15:34:48 Fri 08-Dec-06	Sample	
	Rinse	15:38:44 Fri 08-Dec-06	Sample	
	CCV 1	15:42:42 Fri 08-Dec-06	Sample	
	CCB 1	15:47:44 Fri 08-Dec-06	Sample	
	CCV 2	15:51:42 Fri 08-Dec-06	Sample	
	CCB 2	15:55:39 Fri 08-Dec-06	Sample	
6338322	JKQP3C	15:59:29 Fri 08-Dec-06	Sample	G6L040000-322 LCS
6338322	JKQP3L	16:03:16 Fri 08-Dec-06	Sample	G6L040000-322 LCSD
	Rinse	16:07:12 Fri 08-Dec-06	Sample	
6338322	JKQP3B	16:11:05 Fri 08-Dec-06	Sample	G6L040000-322 BLK
	Control BLK	16:15:01 Fri 08-Dec-06	Sample	Control BLK
6338322	JJ57V	16:18:16 Fri 08-Dec-06	Sample	G6K210180-1
6338322	JJ57VP5	16:22:05 Fri 08-Dec-06	Sample	G6K210180-1 5X
6338322	JJ57VZ	16:25:53 Fri 08-Dec-06	Sample	G6K210180-1 PS
6338322	JJ57X	16:29:42 Fri 08-Dec-06	Sample	G6K210180-2
6338322	JJ570	16:33:32 Fri 08-Dec-06	Sample	G6K210180-3
	CCV 3	16:37:28 Fri 08-Dec-06	Sample	
	CCB 3	16:41:25 Fri 08-Dec-06	Sample	
	CCV 4	17:24:05 Fri 08-Dec-06	Sample	
	CCB 4	17:28:03 Fri 08-Dec-06	Sample	
6338322	JJ571	17:31:54 Fri 08-Dec-06	Sample	G6K210180-4
6338322	JJ573	17:35:44 Fri 08-Dec-06	Sample	G6K210180-5
6338322	JJ8VM	17:39:35 Fri 08-Dec-06	Sample	G6K220186-1
6338322	JJ8VQ	17:43:26 Fri 08-Dec-06	Sample	G6K220186-2
6338322	JJ8VR	17:47:18 Fri 08-Dec-06	Sample	G6K220186-3
6338322	JJ8VT	17:51:09 Fri 08-Dec-06	Sample	G6K220186-4
6338322	JJ8VV	17:55:02 Fri 08-Dec-06	Sample	G6K220186-5
	CCV 5	17:58:59 Fri 08-Dec-06	Sample	
	CCB 5	18:02:56 Fri 08-Dec-06	Sample	
	CCV 6	18:06:54 Fri 08-Dec-06	Sample	
	CCB 6	18:10:51 Fri 08-Dec-06	Sample	
	LL STD 10X	18:14:48 Fri 08-Dec-06	Sample	LL STD 10X
	LL STD 5X	18:18:08 Fri 08-Dec-06	Sample	LL STD 5X
	ICSA	18:21:28 Fri 08-Dec-06	Sample	
	ICSAB	18:25:23 Fri 08-Dec-06	Sample	
	Rinse	18:29:19 Fri 08-Dec-06	Sample	
6342038	JK3C3C	18:33:10 Fri 08-Dec-06	Sample	G6L080000-38 LCS
6342038	JK3C3L	18:36:58 Fri 08-Dec-06	Sample	G6L080000-38 LCSD
	Rinse	18:40:54 Fri 08-Dec-06	Sample	
6342038	JK3C3B	18:44:47 Fri 08-Dec-06	Sample	G6L080000-38 BLK
	CCV 7	18:48:44 Fri 08-Dec-06	Sample	
	CCB 7	18:52:41 Fri 08-Dec-06	Sample	

	CCV 8	18:56:39 Fri 08-Dec-06	Sample	
	CCB 8	19:00:36 Fri 08-Dec-06	Sample	
6342038	JK0X1	19:04:29 Fri 08-Dec-06	Sample	G6L070146-1
6342038	JK0X1P5	19:08:23 Fri 08-Dec-06	Sample	G6L070146-1 5X
6342038	JK0X1X	19:12:17 Fri 08-Dec-06	Sample	G6L070146-1 DU
6342038	JK0X1Z	19:16:11 Fri 08-Dec-06	Sample	G6L070146-1 PS
6342038	JK0X2	19:20:06 Fri 08-Dec-06	Sample	G6L070146-2
6342038	JK0X3	19:24:01 Fri 08-Dec-06	Sample	G6L070146-3
6342038	JK0X4	19:27:52 Fri 08-Dec-06	Sample	G6L070146-4
6342038	JK0X5	19:31:41 Fri 08-Dec-06	Sample	G6L070146-5
6342038	JK0X6	19:35:29 Fri 08-Dec-06	Sample	G6L070146-6
6342038	JK0X7	19:39:18 Fri 08-Dec-06	Sample	G6L070146-7
	CCV 9	19:43:14 Fri 08-Dec-06	Sample	
	CCB 9	19:47:11 Fri 08-Dec-06	Sample	
	CCV 10	19:51:09 Fri 08-Dec-06	Sample	
	CCB 10	19:55:06 Fri 08-Dec-06	Sample	
6342038	JK0X8	19:58:58 Fri 08-Dec-06	Sample	G6L070146-8
6342038	JK0X9	20:02:47 Fri 08-Dec-06	Sample	G6L070146-9
6342038	JK00A	20:06:37 Fri 08-Dec-06	Sample	G6L070146-10
6342038	JK00C	20:10:28 Fri 08-Dec-06	Sample	G6L070146-11
6342038	JK00D	20:14:19 Fri 08-Dec-06	Sample	G6L070146-12
6342038	JK00E	20:18:10 Fri 08-Dec-06	Sample	G6L070146-13
6341072	JK0JGC	20:22:00 Fri 08-Dec-06	Sample	G6L070000-72 LCS
6341072	JK0JGL	20:25:49 Fri 08-Dec-06	Sample	G6L070000-72 LCSD
	Rinse	20:29:45 Fri 08-Dec-06	Sample	
6341072	JK0JGB	20:33:38 Fri 08-Dec-06	Sample	G6L070000-72 BLK
	CCV 11	20:37:35 Fri 08-Dec-06	Sample	
	CCB 11	20:41:33 Fri 08-Dec-06	Sample	
	CCV 12	20:45:30 Fri 08-Dec-06	Sample	
	CCB 12	20:49:28 Fri 08-Dec-06	Sample	
6341072	JKV8F	20:53:20 Fri 08-Dec-06	Sample	G6L060147-1
6341072	JKV8FP5	20:57:12 Fri 08-Dec-06	Sample	G6L060147-1 5X
6341072	JKV8FX	21:01:05 Fri 08-Dec-06	Sample	G6L060147-1 DU
6341072	JKV8FZ	21:04:58 Fri 08-Dec-06	Sample	G6L060147-1 PS
6341072	JKV8H	21:08:51 Fri 08-Dec-06	Sample	G6L060147-2
6341072	JKV8J	21:12:45 Fri 08-Dec-06	Sample	G6L060147-3
6341072	JKV8K	21:16:39 Fri 08-Dec-06	Sample	G6L060147-4
6341072	JKV8L	21:20:33 Fri 08-Dec-06	Sample	G6L060147-5
6341072	JKV8M	21:24:24 Fri 08-Dec-06	Sample	G6L060147-6
6341072	JKV8N	21:28:12 Fri 08-Dec-06	Sample	G6L060147-7
	CCV 13	21:32:07 Fri 08-Dec-06	Sample	
	CCB 13	21:36:04 Fri 08-Dec-06	Sample	
	CCV 14	21:40:02 Fri 08-Dec-06	Sample	
	CCB 14	21:43:59 Fri 08-Dec-06	Sample	
6341072	JKV8P	21:47:50 Fri 08-Dec-06	Sample	G6L060147-8
6341072	JKV8R	21:51:38 Fri 08-Dec-06	Sample	G6L060147-9
6341072	JKV8T	21:55:27 Fri 08-Dec-06	Sample	G6L060147-10
6341072	JKV8V	21:59:16 Fri 08-Dec-06	Sample	G6L060147-11
6341072	JKV8W	22:03:06 Fri 08-Dec-06	Sample	G6L060147-12
6341072	JKV8X	22:06:56 Fri 08-Dec-06	Sample	G6L060147-13
6341072	JKV88	22:10:46 Fri 08-Dec-06	Sample	G6L060147-14
6341054	JK0G2C	22:14:36 Fri 08-Dec-06	Sample	G6L070000-54 LCS
6341054	JK0G2L	22:18:25 Fri 08-Dec-06	Sample	G6L070000-54 LCSD
	CCV 15	22:22:21 Fri 08-Dec-06	Sample	
	CCB 15	22:26:18 Fri 08-Dec-06	Sample	
	CCV 16	22:30:16 Fri 08-Dec-06	Sample	
	CCB 16	22:34:13 Fri 08-Dec-06	Sample	
6341054	JK0G2B	22:38:06 Fri 08-Dec-06	Sample	G6L070000-54 BLK
6341054	JKV4G	22:41:58 Fri 08-Dec-06	Sample	G6L060132-1
6341054	JKV4GP5	22:45:49 Fri 08-Dec-06	Sample	G6L060132-1 5X

6341054	JKV4GZ	22:49:40 Fri 08-Dec-06	Sample	G6L060132-1 PS
6341054	JKV4M	22:53:32 Fri 08-Dec-06	Sample	G6L060132-2
6341054	JKV4P	22:57:25 Fri 08-Dec-06	Sample	G6L060132-3
6341054	JKV4R	23:01:17 Fri 08-Dec-06	Sample	G6L060132-4
6341054	JKV4X	23:05:10 Fri 08-Dec-06	Sample	G6L060132-5
6341054	JKV41	23:09:04 Fri 08-Dec-06	Sample	G6L060132-6
6341054	JKV43	23:12:58 Fri 08-Dec-06	Sample	G6L060132-7
	CCV 17	23:16:57 Fri 08-Dec-06	Sample	
	CCB 17	23:20:57 Fri 08-Dec-06	Sample	
	CCV 18	23:24:58 Fri 08-Dec-06	Sample	
	CCB 18	23:28:58 Fri 08-Dec-06	Sample	
6341054	JKV46	23:32:50 Fri 08-Dec-06	Sample	G6L060132-8
6340034	JKVMXC	23:36:39 Fri 08-Dec-06	Sample	G6L060000-34 LCS
6340034	JKVMLX	23:40:29 Fri 08-Dec-06	Sample	G6L060000-34 LCSD
	Rinse	23:44:26 Fri 08-Dec-06	Sample	
6340034	JKVMXB	23:48:20 Fri 08-Dec-06	Sample	G6L060000-34 BLK
6340034	JKGWR	23:52:14 Fri 08-Dec-06	Sample	G6K290203-1
6340034	JKGWRP5	23:56:05 Fri 08-Dec-06	Sample	G6K290203-1 5X
6340034	JKGWRZ	23:59:52 Fri 08-Dec-06	Sample	G6K290203-1 PS
6340034	JKGW1	00:03:41 Sat 09-Dec-06	Sample	G6K290203-2
6340034	JKGW5	00:07:29 Sat 09-Dec-06	Sample	G6K290203-3
	CCV 19	00:11:26 Sat 09-Dec-06	Sample	
	CCB 19	00:15:26 Sat 09-Dec-06	Sample	
	CCV 20	00:19:26 Sat 09-Dec-06	Sample	
	CCB 20	00:23:27 Sat 09-Dec-06	Sample	
6340034	JKGW6	00:27:19 Sat 09-Dec-06	Sample	G6K290203-4
6340034	JKGW7	00:31:08 Sat 09-Dec-06	Sample	G6K290203-5
6340034	JKGXA	00:34:58 Sat 09-Dec-06	Sample	G6K290203-6
6340034	JKGXE	00:38:48 Sat 09-Dec-06	Sample	G6K290203-7
6340034	JKGXG	00:42:38 Sat 09-Dec-06	Sample	G6K290203-8
6340034	JKMF7	00:46:29 Sat 09-Dec-06	Sample	G6L010156-1
6340034	JKMF9	00:50:20 Sat 09-Dec-06	Sample	G6L010156-2
6340034	JKMGA	00:54:12 Sat 09-Dec-06	Sample	G6L010156-3
6340034	JKMGD	00:58:04 Sat 09-Dec-06	Sample	G6L010156-4
6340034	JKMGE	01:01:57 Sat 09-Dec-06	Sample	G6L010156-5
	CCV 21	01:05:55 Sat 09-Dec-06	Sample	
	CCB 21	01:09:56 Sat 09-Dec-06	Sample	
	CCV 22	01:13:56 Sat 09-Dec-06	Sample	
	CCB 22	01:17:56 Sat 09-Dec-06	Sample	
6340034	JKMGF	01:21:51 Sat 09-Dec-06	Sample	G6L010156-6
6340034	JKMGH	01:25:44 Sat 09-Dec-06	Sample	G6L010156-7
6340034	JKMGJ	01:29:38 Sat 09-Dec-06	Sample	G6L010156-8
6339039	JKRDQC	01:33:30 Sat 09-Dec-06	Sample	G6L050000-39 LCS
6339039	JKRDQL	01:37:21 Sat 09-Dec-06	Sample	G6L050000-39 LCSD
	Rinse	01:41:19 Sat 09-Dec-06	Sample	
6339039	JKRDQB	01:45:12 Sat 09-Dec-06	Sample	G6L050000-39 BLK
6339039	JKJPL	01:49:02 Sat 09-Dec-06	Sample	G6K300163-1
6339039	JKJLP5	01:52:50 Sat 09-Dec-06	Sample	G6K300163-1 5X
6339039	JKJPLZ	01:56:37 Sat 09-Dec-06	Sample	G6K300163-1 PS
	CCV 23	02:00:34 Sat 09-Dec-06	Sample	
	CCB 23	02:04:34 Sat 09-Dec-06	Sample	
	CCV 24	02:08:34 Sat 09-Dec-06	Sample	
	CCB 24	02:12:35 Sat 09-Dec-06	Sample	
6339039	JKJPQ	02:16:27 Sat 09-Dec-06	Sample	G6K300163-2
6339039	JKJPR	02:20:15 Sat 09-Dec-06	Sample	G6K300163-3
6339039	JKJPT	02:24:04 Sat 09-Dec-06	Sample	G6K300163-4
6339039	JKJPV	02:27:53 Sat 09-Dec-06	Sample	G6K300163-5
6339039	JKJP1	02:31:43 Sat 09-Dec-06	Sample	G6K300163-6
6339039	JKJP3	02:35:32 Sat 09-Dec-06	Sample	G6K300163-7
6339039	JKJP4	02:39:23 Sat 09-Dec-06	Sample	G6K300163-8

6339039	JKQKC	02:43:14 Sat 09-Dec-06	Sample	G6L040139-1
6339039	JKQKD	02:47:05 Sat 09-Dec-06	Sample	G6L040139-2
6339039	JKQKE	02:50:57 Sat 09-Dec-06	Sample	G6L040139-3
	CCV 25	02:54:55 Sat 09-Dec-06	Sample	
	CCB 25	02:58:55 Sat 09-Dec-06	Sample	
	CCV 26	03:02:55 Sat 09-Dec-06	Sample	
	CCB 26	03:06:56 Sat 09-Dec-06	Sample	
6339039	JKQKF	03:10:50 Sat 09-Dec-06	Sample	G6L040139-4
6339039	JKQKG	03:14:42 Sat 09-Dec-06	Sample	G6L040139-5
6339039	JKQKH	03:18:35 Sat 09-Dec-06	Sample	G6L040139-6
6339039	JKQKJ	03:22:28 Sat 09-Dec-06	Sample	G6L040139-7
6339039	JKQKK	03:26:18 Sat 09-Dec-06	Sample	G6L040139-8
	CCV 27	03:30:14 Sat 09-Dec-06	Sample	
	CCB 27	03:34:15 Sat 09-Dec-06	Sample	
	CCV 28	03:38:15 Sat 09-Dec-06	Sample	
	CCB 28	03:42:15 Sat 09-Dec-06	Sample	

STL Sacramento

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 12/10/06 18:02:08

File ID: 061208B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
2	Blank			1.0	12/08/06 15:06		<input type="checkbox"/>
3	Standard 1			1.0	12/08/06 15:10		<input type="checkbox"/>
4	ICV			1.0	12/08/06 15:14		<input type="checkbox"/>
5	ICB			1.0	12/08/06 15:18		<input type="checkbox"/>
6	LL STD 10X			10.0	12/08/06 15:22		<input type="checkbox"/>
7	LL STD 5X			5.0	12/08/06 15:25		<input type="checkbox"/>
8	ICSA			1.0	12/08/06 15:30		<input type="checkbox"/>
9	ICSAB			1.0	12/08/06 15:34		<input type="checkbox"/>
10	Rinse			1.0	12/08/06 15:38		<input type="checkbox"/>
11	CCV 1			1.0	12/08/06 15:42		<input type="checkbox"/>
12	CCB 1			1.0	12/08/06 15:47		<input type="checkbox"/>
13	CCV 2			1.0	12/08/06 15:51		<input type="checkbox"/>
14	CCB 2			1.0	12/08/06 15:55		<input type="checkbox"/>
15	JKQP3C	G6L040000	6338322	2A	1.0	12/08/06 15:59	<input type="checkbox"/>
16	JKQP3L	G6L040000	6338322	2A	1.0	12/08/06 16:03	<input type="checkbox"/>
17	Rinse			1.0	12/08/06 16:07		<input type="checkbox"/>
18	JKQP3B	G6L040000	6338322	2A	1.0	12/08/06 16:11	<input type="checkbox"/>
19	Control BLK				1.0	12/08/06 16:15	<input type="checkbox"/>
20	JJ57V	G6K210180-1	6338322	2A	1.0	12/08/06 16:18	<input type="checkbox"/>
21	JJ57VP5	G6K210180	6338322		5.0	12/08/06 16:22	<input type="checkbox"/>
22	JJ57VZ	G6K210180-1	6338322		1.0	12/08/06 16:25	<input type="checkbox"/>
23	JJ57X	G6K210180-2	6338322	2A	1.0	12/08/06 16:29	<input type="checkbox"/>
24	JJ570	G6K210180-3	6338322	2A	1.0	12/08/06 16:33	<input type="checkbox"/>
25	CCV 3				1.0	12/08/06 16:37	<input type="checkbox"/>
26	CCB 3				1.0	12/08/06 16:41	<input type="checkbox"/>
27	CCV 4				1.0	12/08/06 17:24	<input type="checkbox"/>
28	CCB 4				1.0	12/08/06 17:28	<input type="checkbox"/>
29	JJ571	G6K210180-4	6338322	2A	1.0	12/08/06 17:31	<input type="checkbox"/>
30	JJ573	G6K210180-5	6338322	2A	1.0	12/08/06 17:35	<input type="checkbox"/>
31	JJ8VM	G6K220186-1	6338322	2A	1.0	12/08/06 17:39	<input type="checkbox"/>
32	JJ8VQ	G6K220186-2	6338322	2A	1.0	12/08/06 17:43	<input type="checkbox"/>
33	JJ8VR	G6K220186-3	6338322	2A	1.0	12/08/06 17:47	<input type="checkbox"/>
34	JJ8VT	G6K220186-4	6338322	2A	1.0	12/08/06 17:51	<input type="checkbox"/>
35	JJ8VV	G6K220186-5	6338322	2A	1.0	12/08/06 17:55	<input type="checkbox"/>
36	CCV 5				1.0	12/08/06 17:58	<input type="checkbox"/>
37	CCB 5				1.0	12/08/06 18:02	<input type="checkbox"/>
38	CCV 6				1.0	12/08/06 18:06	<input type="checkbox"/>
39	CCB 6				1.0	12/08/06 18:10	<input type="checkbox"/>
40	LL STD 10X				10.0	12/08/06 18:14	<input type="checkbox"/>
41	LL STD 5X				5.0	12/08/06 18:18	<input type="checkbox"/>
42	ICSA				1.0	12/08/06 18:21	<input type="checkbox"/>
43	ICSAB				1.0	12/08/06 18:25	<input type="checkbox"/>
44	Rinse				1.0	12/08/06 18:29	<input type="checkbox"/>
45	JK3C3C	G6L080000	6342038	2A	1.0	12/08/06 18:33	<input type="checkbox"/>
46	JK3C3L	G6L080000	6342038	2A	1.0	12/08/06 18:36	<input type="checkbox"/>
47	Rinse				1.0	12/08/06 18:40	<input type="checkbox"/>

STL Sacramento

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 12/10/06 18:02:08

File ID: 061208B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
48	JK3C3B	G6L080000	6342038	2A	1.0 12/08/06 18:44		<input type="checkbox"/>
49	CCV 7				1.0 12/08/06 18:48		<input type="checkbox"/>
50	CCB 7				1.0 12/08/06 18:52		<input type="checkbox"/>
51	CCV 8				1.0 12/08/06 18:56		<input type="checkbox"/>
52	CCB 8				1.0 12/08/06 19:00		<input type="checkbox"/>
53	JK0X1	G6L070146-1	6342038	2A	1.0 12/08/06 19:04		<input type="checkbox"/>
54	JK0X1P5	G6L070146	6342038		5.0 12/08/06 19:08		<input type="checkbox"/>
55	JK0X1X	G6L070146-1	6342038	2A	1.0 12/08/06 19:12		<input type="checkbox"/>
56	JK0X1Z	G6L070146-1	6342038		1.0 12/08/06 19:16		<input type="checkbox"/>
57	JK0X2	G6L070146-2	6342038	2A	1.0 12/08/06 19:20		<input type="checkbox"/>
58	JK0X3	G6L070146-3	6342038	2A	1.0 12/08/06 19:24		<input type="checkbox"/>
59	JK0X4	G6L070146-4	6342038	2A	1.0 12/08/06 19:27		<input type="checkbox"/>
60	JK0X5	G6L070146-5	6342038	2A	1.0 12/08/06 19:31		<input type="checkbox"/>
61	JK0X6	G6L070146-6	6342038	2A	1.0 12/08/06 19:35		<input type="checkbox"/>
62	JK0X7	G6L070146-7	6342038	2A	1.0 12/08/06 19:39		<input type="checkbox"/>
63	CCV 9				1.0 12/08/06 19:43		<input type="checkbox"/>
64	CCB 9				1.0 12/08/06 19:47		<input type="checkbox"/>
65	CCV 10				1.0 12/08/06 19:51		<input type="checkbox"/>
66	CCB 10				1.0 12/08/06 19:55		<input type="checkbox"/>
67	JK0X8	G6L070146-8	6342038	2A	1.0 12/08/06 19:58		<input type="checkbox"/>
68	JK0X9	G6L070146-9	6342038	2A	1.0 12/08/06 20:02		<input type="checkbox"/>
69	JK00A	G6L070146-10	6342038	2A	1.0 12/08/06 20:06		<input type="checkbox"/>
70	JK00C	G6L070146-11	6342038	2A	1.0 12/08/06 20:10		<input type="checkbox"/>
71	JK00D	G6L070146-12	6342038	2A	1.0 12/08/06 20:14		<input type="checkbox"/>
72	JK00E	G6L070146-13	6342038	2A	1.0 12/08/06 20:18		<input type="checkbox"/>
73	JK0JGC	G6L070000	6341072	2A	1.0 12/08/06 20:22		<input type="checkbox"/>
74	JK0JGL	G6L070000	6341072	2A	1.0 12/08/06 20:25		<input type="checkbox"/>
75	Rinse				1.0 12/08/06 20:29		<input type="checkbox"/>
76	JK0JGB	G6L070000	6341072	2A	1.0 12/08/06 20:33		<input type="checkbox"/>
77	CCV 11				1.0 12/08/06 20:37		<input type="checkbox"/>
78	CCB 11				1.0 12/08/06 20:41		<input type="checkbox"/>
79	CCV 12				1.0 12/08/06 20:45		<input type="checkbox"/>
80	CCB 12				1.0 12/08/06 20:49		<input type="checkbox"/>
81	JKV8F	G6L060147-1	6341072	2A	1.0 12/08/06 20:53		<input type="checkbox"/>
82	JKV8FP5	G6L060147	6341072		5.0 12/08/06 20:57		<input type="checkbox"/>
83	JKV8FX	G6L060147-1	6341072	2A	1.0 12/08/06 21:01		<input type="checkbox"/>
84	JKV8FZ	G6L060147-1	6341072		1.0 12/08/06 21:04		<input type="checkbox"/>
85	JKV8H	G6L060147-2	6341072	2A	1.0 12/08/06 21:08		<input type="checkbox"/>
86	JKV8J	G6L060147-3	6341072	2A	1.0 12/08/06 21:12		<input type="checkbox"/>
87	JKV8K	G6L060147-4	6341072	2A	1.0 12/08/06 21:16		<input type="checkbox"/>
88	JKV8L	G6L060147-5	6341072	2A	1.0 12/08/06 21:20		<input type="checkbox"/>
89	JKV8M	G6L060147-6	6341072	2A	1.0 12/08/06 21:24		<input type="checkbox"/>
90	JKV8N	G6L060147-7	6341072	2A	1.0 12/08/06 21:28		<input type="checkbox"/>
91	CCV 13				1.0 12/08/06 21:32		<input type="checkbox"/>
92	CCB 13				1.0 12/08/06 21:36		<input type="checkbox"/>
93	CCV 14				1.0 12/08/06 21:40		<input type="checkbox"/>

STL Sacramento

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 12/10/06 18:02:08

File ID: 061208B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
94	CCB 14			1.0	12/08/06 21:43		<input type="checkbox"/>
95	JKV8P	G6L060147-8	6341072	2A	1.0	12/08/06 21:47	<input type="checkbox"/>
96	JKV8R	G6L060147-9	6341072	2A	1.0	12/08/06 21:51	<input type="checkbox"/>
97	JKV8T	G6L060147-10	6341072	2A	1.0	12/08/06 21:55	<input type="checkbox"/>
98	JKV8V	G6L060147-11	6341072	2A	1.0	12/08/06 21:59	<input type="checkbox"/>
99	JKV8W	G6L060147-12	6341072	2A	1.0	12/08/06 22:03	<input type="checkbox"/>
100	JKV8X	G6L060147-13	6341072	2A	1.0	12/08/06 22:06	<input type="checkbox"/>
101	JKV88	G6L060147-14	6341072	2A	1.0	12/08/06 22:10	<input type="checkbox"/>
102	JK0G2C	G6L070000	6341054	2A	1.0	12/08/06 22:14	<input type="checkbox"/>
103	JK0G2L	G6L070000	6341054	2A	1.0	12/08/06 22:18	<input type="checkbox"/>
104	CCV 15				1.0	12/08/06 22:22	<input type="checkbox"/>
105	CCB 15				1.0	12/08/06 22:26	<input type="checkbox"/>
106	CCV 16				1.0	12/08/06 22:30	<input type="checkbox"/>
107	CCB 16				1.0	12/08/06 22:34	<input type="checkbox"/>
108	JK0G2B	G6L070000	6341054	2A	1.0	12/08/06 22:38	<input type="checkbox"/>
109	JKV4G	G6L060132-1	6341054	2A	1.0	12/08/06 22:41	<input type="checkbox"/>
110	JKV4GP5	G6L060132	6341054		5.0	12/08/06 22:45	<input type="checkbox"/>
111	JKV4GZ	G6L060132-1	6341054		1.0	12/08/06 22:49	<input type="checkbox"/>
112	JKV4M	G6L060132-2	6341054	2A	1.0	12/08/06 22:53	<input type="checkbox"/>
113	JKV4P	G6L060132-3	6341054	2A	1.0	12/08/06 22:57	<input type="checkbox"/>
114	JKV4R	G6L060132-4	6341054	2A	1.0	12/08/06 23:01	<input type="checkbox"/>
115	JKV4X	G6L060132-5	6341054	2A	1.0	12/08/06 23:05	<input type="checkbox"/>
116	JKV41	G6L060132-6	6341054	2A	1.0	12/08/06 23:09	<input type="checkbox"/>
117	JKV43	G6L060132-7	6341054	2A	1.0	12/08/06 23:12	<input type="checkbox"/>
118	CCV 17				1.0	12/08/06 23:16	<input type="checkbox"/>
119	CCB 17				1.0	12/08/06 23:20	<input type="checkbox"/>
120	CCV 18				1.0	12/08/06 23:24	<input type="checkbox"/>
121	CCB 18				1.0	12/08/06 23:28	<input type="checkbox"/>
122	JKV46	G6L060132-8	6341054	2A	1.0	12/08/06 23:32	<input type="checkbox"/>
123	JKVMXC	G6L060000	6340034	2A	1.0	12/08/06 23:36	<input type="checkbox"/>
124	JKVMLX	G6L060000	6340034	2A	1.0	12/08/06 23:40	<input type="checkbox"/>
125	Rinse				1.0	12/08/06 23:44	<input type="checkbox"/>
126	JKVMB	G6L060000	6340034	2A	1.0	12/08/06 23:48	<input type="checkbox"/>
127	JKGWR	G6K290203-1	6340034	2A	1.0	12/08/06 23:52	<input type="checkbox"/>
128	JKGWRP5	G6K290203	6340034		5.0	12/08/06 23:56	<input type="checkbox"/>
129	JKGWRZ	G6K290203-1	6340034		1.0	12/08/06 23:59	<input type="checkbox"/>
130	JKGW1	G6K290203-2	6340034	2A	1.0	12/09/06 00:03	<input type="checkbox"/>
131	JKGW5	G6K290203-3	6340034	2A	1.0	12/09/06 00:07	<input type="checkbox"/>
132	CCV 19				1.0	12/09/06 00:11	<input type="checkbox"/>
133	CCB 19				1.0	12/09/06 00:15	<input type="checkbox"/>
134	CCV 20				1.0	12/09/06 00:19	<input type="checkbox"/>
135	CCB 20				1.0	12/09/06 00:23	<input type="checkbox"/>
136	JKGW6	G6K290203-4	6340034	2A	1.0	12/09/06 00:27	<input type="checkbox"/>
137	JKGW7	G6K290203-5	6340034	2A	1.0	12/09/06 00:31	<input type="checkbox"/>
138	JKGXA	G6K290203-6	6340034	2A	1.0	12/09/06 00:34	<input type="checkbox"/>
139	JKGXE	G6K290203-7	6340034	2A	1.0	12/09/06 00:38	<input type="checkbox"/>

STL Sacramento

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 12/10/06 18:02:08

File ID: 061208B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
140	JKGXG	G6K290203-8	6340034	2A	1.0 12/09/06 00:42		<input type="checkbox"/>
141	JKMF7	G6L010156-1	6340034	2A	1.0 12/09/06 00:46		<input type="checkbox"/>
142	JKMF9	G6L010156-2	6340034	2A	1.0 12/09/06 00:50		<input type="checkbox"/>
143	JKMGA	G6L010156-3	6340034	2A	1.0 12/09/06 00:54		<input type="checkbox"/>
144	JKMGD	G6L010156-4	6340034	2A	1.0 12/09/06 00:58		<input type="checkbox"/>
145	JKMGE	G6L010156-5	6340034	2A	1.0 12/09/06 01:01		<input type="checkbox"/>
146	CCV 21				1.0 12/09/06 01:05		<input type="checkbox"/>
147	CCB 21				1.0 12/09/06 01:09		<input type="checkbox"/>
148	CCV 22				1.0 12/09/06 01:13		<input type="checkbox"/>
149	CCB 22				1.0 12/09/06 01:17		<input type="checkbox"/>
150	JKMGF	G6L010156-6	6340034	2A	1.0 12/09/06 01:21		<input type="checkbox"/>
151	JKMGH	G6L010156-7	6340034	2A	1.0 12/09/06 01:25		<input type="checkbox"/>
152	JKMGJ	G6L010156-8	6340034	2A	1.0 12/09/06 01:29		<input type="checkbox"/>
153	JKRDQC	G6L050000	6339039	2A	1.0 12/09/06 01:33		<input type="checkbox"/>
154	JKRDQL	G6L050000	6339039	2A	1.0 12/09/06 01:37		<input type="checkbox"/>
155	Rinse				1.0 12/09/06 01:41		<input type="checkbox"/>
156	JKRDQB	G6L050000	6339039	2A	1.0 12/09/06 01:45		<input type="checkbox"/>
157	JKJPL	G6K300163-1	6339039	2A	1.0 12/09/06 01:49		<input type="checkbox"/>
158	JKJPLP5	G6K300163	6339039		5.0 12/09/06 01:52		<input type="checkbox"/>
159	JKJPLZ	G6K300163-1	6339039		1.0 12/09/06 01:56		<input type="checkbox"/>
160	CCV 23				1.0 12/09/06 02:00		<input type="checkbox"/>
161	CCB 23				1.0 12/09/06 02:04		<input type="checkbox"/>
162	CCV 24				1.0 12/09/06 02:08		<input type="checkbox"/>
163	CCB 24				1.0 12/09/06 02:12		<input type="checkbox"/>
164	JKJPQ	G6K300163-2	6339039	2A	1.0 12/09/06 02:16		<input type="checkbox"/>
165	JKJPR	G6K300163-3	6339039	2A	1.0 12/09/06 02:20		<input type="checkbox"/>
166	JKJPT	G6K300163-4	6339039	2A	1.0 12/09/06 02:24		<input type="checkbox"/>
167	JKJPV	G6K300163-5	6339039	2A	1.0 12/09/06 02:27		<input type="checkbox"/>
168	JKJP1	G6K300163-6	6339039	2A	1.0 12/09/06 02:31		<input type="checkbox"/>
169	JKJP3	G6K300163-7	6339039	2A	1.0 12/09/06 02:35		<input type="checkbox"/>
170	JKJP4	G6K300163-8	6339039	2A	1.0 12/09/06 02:39		<input type="checkbox"/>
171	JKQKC	G6L040139-1	6339039	2A	1.0 12/09/06 02:43		<input type="checkbox"/>
172	JKQKD	G6L040139-2	6339039	2A	1.0 12/09/06 02:47		<input type="checkbox"/>
173	JKQKE	G6L040139-3	6339039	2A	1.0 12/09/06 02:50		<input type="checkbox"/>
174	CCV 25				1.0 12/09/06 02:54		<input type="checkbox"/>
175	CCB 25				1.0 12/09/06 02:58		<input type="checkbox"/>
176	CCV 26				1.0 12/09/06 03:02		<input type="checkbox"/>
177	CCB 26				1.0 12/09/06 03:06		<input type="checkbox"/>
178	JKQKF	G6L040139-4	6339039	2A	1.0 12/09/06 03:10		<input type="checkbox"/>
179	JKQKG	G6L040139-5	6339039	2A	1.0 12/09/06 03:14		<input type="checkbox"/>
180	JKQKH	G6L040139-6	6339039	2A	1.0 12/09/06 03:18		<input type="checkbox"/>
181	JKQKJ	G6L040139-7	6339039	2A	1.0 12/09/06 03:22		<input type="checkbox"/>
182	JKQKK	G6L040139-8	6339039	2A	1.0 12/09/06 03:26		<input type="checkbox"/>
183	CCV 27				1.0 12/09/06 03:30		<input type="checkbox"/>
184	CCB 27				1.0 12/09/06 03:34		<input type="checkbox"/>
185	CCV 28				1.0 12/09/06 03:38		<input type="checkbox"/>

STL Sacramento**RUN SUMMARY**

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 12/10/06 18:02:08

File ID: 061208B1

Analyst: votawb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
186	CCB 28			1.0	12/09/06 03:42		<input type="checkbox"/>

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 12/10/06 18:02:08

File ID: 061208B1

Analyst: votawb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
2	Blank	12/08/06 15:06	100.0	100.0	100.0	100.0	<input checked="" type="checkbox"/>
3	Standard 1	12/08/06 15:10	99.7	97.1	103.1	97.8	<input checked="" type="checkbox"/>
4	ICV	12/08/06 15:14	99.4	96.1	99.2	94.6	<input checked="" type="checkbox"/>
5	ICB	12/08/06 15:18	102.2	97.5	99.9	95.8	<input checked="" type="checkbox"/>
6	LL STD 10X	12/08/06 15:22	109.7	113.3	114.6	107.2	<input checked="" type="checkbox"/>
7	LL STD 5X	12/08/06 15:25	109.1	117.2	114.1	107.9	<input checked="" type="checkbox"/>
8	ICSA	12/08/06 15:30	81.1	84.6	77.3	76.5	<input checked="" type="checkbox"/>
9	ICSAB	12/08/06 15:34	79.1	84.2	72.3	75.0	<input checked="" type="checkbox"/>
10	Rinse	12/08/06 15:38	97.3	104.7	80.3	96.3	<input checked="" type="checkbox"/>
11	CCV 1	12/08/06 15:42	98.1	101.1	84.0	95.8	<input checked="" type="checkbox"/>
12	CCB 1	12/08/06 15:47	100.5	101.7	85.8	96.8	<input checked="" type="checkbox"/>
13	CCV 2	12/08/06 15:51	98.8	99.8	85.8	94.7	<input checked="" type="checkbox"/>
14	CCB 2	12/08/06 15:55	100.7	102.9	85.8	96.9	<input checked="" type="checkbox"/>
15	JKQP3C	12/08/06 15:59	94.7	101.6	82.6	97.9	<input checked="" type="checkbox"/>
16	JKQP3L	12/08/06 16:03	93.3	100.3	83.6	95.1	<input checked="" type="checkbox"/>
17	Rinse	12/08/06 16:07	96.5	100.5	87.8	95.9	<input checked="" type="checkbox"/>
18	JKQP3B	12/08/06 16:11	94.5	103.0	81.4	99.0	<input checked="" type="checkbox"/>
19	Control BLK	12/08/06 16:15	102.6	111.5	92.1	106.8	<input checked="" type="checkbox"/>
20	JJ57V	12/08/06 16:18	97.6	103.2	84.4	98.0	<input checked="" type="checkbox"/>
21	JJ57VP5	12/08/06 16:22	100.4	101.3	91.2	96.1	<input type="checkbox"/>
22	JJ57VZ	12/08/06 16:25	95.9	100.7	87.1	97.8	<input checked="" type="checkbox"/>
23	JJ57X	12/08/06 16:29	97.9	101.6	86.7	99.0	<input checked="" type="checkbox"/>
24	JJ570	12/08/06 16:33	99.4	102.9	87.9	98.4	<input checked="" type="checkbox"/>
25	CCV 3	12/08/06 16:37	100.5	98.1	93.8	95.9	<input checked="" type="checkbox"/>
26	CCB 3	12/08/06 16:41	99.8	98.5	89.0	94.6	<input checked="" type="checkbox"/>
27	CCV 4	12/08/06 17:24	101.4	97.9	99.4	96.4	<input checked="" type="checkbox"/>
28	CCB 4	12/08/06 17:28	102.6	99.2	96.9	97.6	<input checked="" type="checkbox"/>
29	JJ571	12/08/06 17:31	100.0	100.5	91.1	98.8	<input checked="" type="checkbox"/>
30	JJ573	12/08/06 17:35	101.1	100.8	92.6	99.2	<input checked="" type="checkbox"/>
31	JJ8VM	12/08/06 17:39	100.8	100.4	93.0	98.3	<input checked="" type="checkbox"/>
32	JJ8VQ	12/08/06 17:43	101.6	101.4	94.6	99.4	<input checked="" type="checkbox"/>
33	JJ8VR	12/08/06 17:47	101.3	99.9	94.7	98.5	<input checked="" type="checkbox"/>
34	JJ8VT	12/08/06 17:51	101.6	100.8	94.4	97.9	<input checked="" type="checkbox"/>
35	JJ8VV	12/08/06 17:55	101.5	100.7	94.6	98.3	<input checked="" type="checkbox"/>
36	CCV 5	12/08/06 17:58	100.5	94.9	102.0	93.2	<input checked="" type="checkbox"/>
37	CCB 5	12/08/06 18:02	102.5	96.6	101.6	94.9	<input checked="" type="checkbox"/>
38	CCV 6	12/08/06 18:06	101.2	94.8	99.5	92.9	<input checked="" type="checkbox"/>
39	CCB 6	12/08/06 18:10	101.3	95.8	97.8	92.4	<input checked="" type="checkbox"/>
40	LL STD 10X	12/08/06 18:14	108.9	110.6	111.3	104.0	<input checked="" type="checkbox"/>
41	LL STD 5X	12/08/06 18:18	108.7	115.9	110.3	102.8	<input checked="" type="checkbox"/>
42	ICSA	12/08/06 18:21	80.5	83.5	73.1	74.1	<input checked="" type="checkbox"/>
43	ICSAB	12/08/06 18:25	77.3	82.9	66.5	72.1	<input checked="" type="checkbox"/>
44	Rinse	12/08/06 18:29	94.0	101.2	74.4	91.2	<input checked="" type="checkbox"/>
45	JK3C3C	12/08/06 18:33	91.8	101.7	73.5	92.7	<input checked="" type="checkbox"/>
46	JK3C3L	12/08/06 18:36	90.1	100.3	74.5	91.6	<input checked="" type="checkbox"/>
47	Rinse	12/08/06 18:40	93.2	99.0	77.9	90.0	<input checked="" type="checkbox"/>

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 12/10/06 18.02.08

File ID: 061208B1

Analyst: votawb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
48	JK3C3B	12/08/06 18:44	92.1	101.9	75.4	93.8	<input checked="" type="checkbox"/>
49	CCV 7	12/08/06 18:48	96.1	97.7	81.7	91.9	<input checked="" type="checkbox"/>
50	CCB 7	12/08/06 18:52	96.5	99.0	80.5	92.3	<input checked="" type="checkbox"/>
51	CCV 8	12/08/06 18:56	97.1	97.4	82.3	91.2	<input checked="" type="checkbox"/>
52	CCB 8	12/08/06 19:00	98.1	100.4	80.2	93.6	<input checked="" type="checkbox"/>
53	JK0X1	12/08/06 19:04	97.6	101.3	77.8	95.3	<input checked="" type="checkbox"/>
54	JK0X1P5	12/08/06 19:08	100.0	101.2	83.2	93.8	<input type="checkbox"/>
55	JK0X1X	12/08/06 19:12	99.8	100.3	80.0	94.5	<input checked="" type="checkbox"/>
56	JK0X1Z	12/08/06 19:16	95.6	97.3	81.1	93.7	<input checked="" type="checkbox"/>
57	JK0X2	12/08/06 19:20	95.7	98.2	81.8	94.3	<input checked="" type="checkbox"/>
58	JK0X3	12/08/06 19:24	97.1	98.6	81.9	95.8	<input checked="" type="checkbox"/>
59	JK0X4	12/08/06 19:27	96.9	99.9	83.2	94.3	<input checked="" type="checkbox"/>
60	JK0X5	12/08/06 19:31	97.7	99.3	84.4	95.8	<input checked="" type="checkbox"/>
61	JK0X6	12/08/06 19:35	96.8	98.6	85.0	94.6	<input checked="" type="checkbox"/>
62	JK0X7	12/08/06 19:39	98.2	97.2	86.1	95.2	<input checked="" type="checkbox"/>
63	CCV 9	12/08/06 19:43	97.5	94.5	91.8	92.2	<input checked="" type="checkbox"/>
64	CCB 9	12/08/06 19:47	97.9	97.3	92.1	93.4	<input checked="" type="checkbox"/>
65	CCV 10	12/08/06 19:51	98.4	95.5	92.7	93.5	<input checked="" type="checkbox"/>
66	CCB 10	12/08/06 19:55	99.5	97.1	90.3	93.6	<input checked="" type="checkbox"/>
67	JK0X8	12/08/06 19:58	98.8	99.5	86.1	97.8	<input checked="" type="checkbox"/>
68	JK0X9	12/08/06 20:02	98.9	99.0	87.0	96.2	<input checked="" type="checkbox"/>
69	JK00A	12/08/06 20:06	100.5	100.1	88.8	97.4	<input checked="" type="checkbox"/>
70	JK00C	12/08/06 20:10	98.9	100.0	89.3	97.5	<input checked="" type="checkbox"/>
71	JK00D	12/08/06 20:14	99.6	100.2	89.7	96.2	<input checked="" type="checkbox"/>
72	JK00E	12/08/06 20:18	99.1	99.0	89.8	96.9	<input checked="" type="checkbox"/>
73	JK0JGC	12/08/06 20:22	96.8	97.8	91.8	97.2	<input checked="" type="checkbox"/>
74	JK0JGL	12/08/06 20:25	94.3	96.4	91.9	96.7	<input checked="" type="checkbox"/>
75	Rinse	12/08/06 20:29	97.2	95.8	92.8	93.5	<input checked="" type="checkbox"/>
76	JK0JGB	12/08/06 20:33	95.9	98.8	88.0	96.9	<input checked="" type="checkbox"/>
77	CCV 11	12/08/06 20:37	97.7	95.2	95.5	93.6	<input checked="" type="checkbox"/>
78	CCB 11	12/08/06 20:41	100.1	98.1	94.9	95.8	<input checked="" type="checkbox"/>
79	CCV 12	12/08/06 20:45	99.0	97.3	96.7	95.0	<input checked="" type="checkbox"/>
80	CCB 12	12/08/06 20:49	100.6	98.8	94.1	95.0	<input checked="" type="checkbox"/>
81	JKV8F	12/08/06 20:53	99.3	99.4	89.8	98.0	<input checked="" type="checkbox"/>
82	JKV8FP5	12/08/06 20:57	101.1	98.8	95.8	96.2	<input type="checkbox"/>
83	JKV8FX	12/08/06 21:01	100.0	100.6	90.2	97.0	<input checked="" type="checkbox"/>
84	JKV8FZ	12/08/06 21:04	97.1	97.5	92.5	96.3	<input checked="" type="checkbox"/>
85	JKV8H	12/08/06 21:08	95.7	97.4	90.0	95.2	<input checked="" type="checkbox"/>
86	JKV8J	12/08/06 21:12	98.3	97.3	89.9	94.8	<input checked="" type="checkbox"/>
87	JKV8K	12/08/06 21:16	97.5	98.4	91.3	97.1	<input checked="" type="checkbox"/>
88	JKV8L	12/08/06 21:20	96.9	96.6	90.8	96.8	<input checked="" type="checkbox"/>
89	JKV8M	12/08/06 21:24	97.9	97.5	91.5	96.9	<input checked="" type="checkbox"/>
90	JKV8N	12/08/06 21:28	98.0	97.5	91.8	97.2	<input checked="" type="checkbox"/>
91	CCV 13	12/08/06 21:32	98.1	94.5	102.7	93.8	<input checked="" type="checkbox"/>
92	CCB 13	12/08/06 21:36	99.1	96.0	99.9	94.6	<input checked="" type="checkbox"/>
93	CCV 14	12/08/06 21:40	99.5	94.5	100.0	95.2	<input checked="" type="checkbox"/>

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 12/10/06 18:02:08

File ID: 061208B1

Analyst: votawb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
94	CCB 14	12/08/06 21:43	98.9	96.3	96.4	93.6	<input checked="" type="checkbox"/>
95	JKV8P	12/08/06 21:47	99.4	99.1	90.4	96.0	<input checked="" type="checkbox"/>
96	JKV8R	12/08/06 21:51	99.1	99.0	89.7	97.6	<input checked="" type="checkbox"/>
97	JKV8T	12/08/06 21:55	98.9	98.2	89.4	94.9	<input checked="" type="checkbox"/>
98	JKV8V	12/08/06 21:59	98.9	98.4	92.4	98.1	<input checked="" type="checkbox"/>
99	JKV8W	12/08/06 22:03	99.0	99.6	93.0	97.2	<input checked="" type="checkbox"/>
100	JKV8X	12/08/06 22:06	99.0	98.7	91.9	97.2	<input checked="" type="checkbox"/>
101	JKV88	12/08/06 22:10	100.1	100.4	93.5	99.3	<input checked="" type="checkbox"/>
102	JK0G2C	12/08/06 22:14	96.1	97.9	94.0	97.7	<input type="checkbox"/>
103	JK0G2L	12/08/06 22:18	94.9	95.7	94.0	97.6	<input type="checkbox"/>
104	CCV 15	12/08/06 22:22	98.6	94.1	101.8	94.2	<input type="checkbox"/>
105	CCB 15	12/08/06 22:26	100.5	96.8	100.5	96.3	<input type="checkbox"/>
106	CCV 16	12/08/06 22:30	99.3	95.5	100.4	95.3	<input type="checkbox"/>
107	CCB 16	12/08/06 22:34	101.1	97.7	100.7	95.4	<input type="checkbox"/>
108	JK0G2B	12/08/06 22:38	99.3	100.3	90.8	99.6	<input type="checkbox"/>
109	JKV4G	12/08/06 22:41	99.5	101.5	91.3	99.1	<input type="checkbox"/>
110	JKV4GP5	12/08/06 22:45	101.5	99.3	99.3	97.8	<input type="checkbox"/>
111	JKV4GZ	12/08/06 22:49	97.1	97.7	94.0	97.5	<input type="checkbox"/>
112	JKV4M	12/08/06 22:53	94.8	98.6	90.2	97.2	<input type="checkbox"/>
113	JKV4P	12/08/06 22:57	95.7	99.6	91.5	98.5	<input type="checkbox"/>
114	JKV4R	12/08/06 23:01	97.3	100.2	91.8	97.9	<input type="checkbox"/>
115	JKV4X	12/08/06 23:05	94.9	99.3	89.7	97.8	<input type="checkbox"/>
116	JKV4I	12/08/06 23:09	97.1	100.4	90.4	99.3	<input type="checkbox"/>
117	JKV43	12/08/06 23:12	97.7	99.2	89.9	98.6	<input type="checkbox"/>
118	CCV 17	12/08/06 23:16	99.7	95.3	102.3	96.0	<input type="checkbox"/>
119	CCB 17	12/08/06 23:20	100.1	96.6	100.7	96.3	<input type="checkbox"/>
120	CCV 18	12/08/06 23:24	99.8	94.8	99.9	94.7	<input type="checkbox"/>
121	C C B 18	12/08/06 23:28	100.1	96.5	99.3	95.0	<input type="checkbox"/>
122	JKV46	12/08/06 23:32	101.4	100.0	93.1	99.0	<input type="checkbox"/>
123	JKVMXC	12/08/06 23:36	96.9	96.8	92.0	96.3	<input type="checkbox"/>
124	JKVMXL	12/08/06 23:40	94.4	95.4	92.7	95.7	<input type="checkbox"/>
125	Rinse	12/08/06 23:44	97.4	93.8	100.8	94.2	<input type="checkbox"/>
126	JKVMXB	12/08/06 23:48	96.1	98.8	90.8	97.7	<input type="checkbox"/>
127	JKGWR	12/08/06 23:52	96.0	100.3	91.2	98.9	<input type="checkbox"/>
128	JKGWRP5	12/08/06 23:56	98.3	97.4	100.6	96.9	<input type="checkbox"/>
129	JKGWRZ	12/08/06 23:59	95.1	97.3	93.2	97.5	<input type="checkbox"/>
130	JKGW1	12/09/06 00:03	95.0	98.9	89.5	96.4	<input type="checkbox"/>
131	JKGW5	12/09/06 00:07	96.2	99.5	90.3	97.6	<input type="checkbox"/>
132	CCV 19	12/09/06 00:11	97.6	93.5	100.7	94.1	<input type="checkbox"/>
133	CCB 19	12/09/06 00:15	100.3	96.3	100.5	95.2	<input type="checkbox"/>
134	CCV 20	12/09/06 00:19	99.1	94.7	100.5	94.8	<input type="checkbox"/>
135	CCB 20	12/09/06 00:23	100.6	97.3	100.9	95.5	<input type="checkbox"/>
136	JKGW6	12/09/06 00:27	99.2	99.0	92.3	99.1	<input type="checkbox"/>
137	JKGW7	12/09/06 00:31	100.8	100.5	92.0	98.2	<input type="checkbox"/>
138	JKGXA	12/09/06 00:34	100.0	101.4	92.3	99.3	<input type="checkbox"/>
139	JKGXE	12/09/06 00:38	100.2	101.3	92.1	99.0	<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 12/10/06 18:02:08

File ID: 061208B1

Analyst: votawb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
140	JKGXG	12/09/06 00:42	99.2	102.0	91.5	100.3	<input type="checkbox"/>
141	JKMF7	12/09/06 00:46	99.4	102.1	91.5	99.2	<input type="checkbox"/>
142	JKMF9	12/09/06 00:50	98.9	101.7	91.3	99.8	<input type="checkbox"/>
143	JKMGA	12/09/06 00:54	99.0	101.8	90.4	98.8	<input type="checkbox"/>
144	JKMGD	12/09/06 00:58	99.8	101.1	91.0	99.6	<input type="checkbox"/>
145	JKMGE	12/09/06 01:01	100.3	102.7	91.9	100.8	<input type="checkbox"/>
146	CCV 21	12/09/06 01:05	100.1	94.0	104.7	97.0	<input type="checkbox"/>
147	CCB 21	12/09/06 01:09	101.3	96.4	104.3	97.0	<input type="checkbox"/>
148	CCV 22	12/09/06 01:13	99.2	94.7	103.6	94.9	<input type="checkbox"/>
149	CCB 22	12/09/06 01:17	101.2	96.8	103.6	97.0	<input type="checkbox"/>
150	JKMGF	12/09/06 01:21	100.6	100.3	94.8	100.3	<input type="checkbox"/>
151	JKMGH	12/09/06 01:25	99.6	100.6	92.5	99.0	<input type="checkbox"/>
152	JKMGJ	12/09/06 01:29	100.0	102.0	93.1	99.7	<input type="checkbox"/>
153	JKRDQC	12/09/06 01:33	95.8	96.9	94.6	98.1	<input type="checkbox"/>
154	JKRDQL	12/09/06 01:37	93.9	95.1	93.4	96.8	<input type="checkbox"/>
155	Rinse	12/09/06 01:41	96.9	94.5	105.6	95.9	<input type="checkbox"/>
156	JKRDQB	12/09/06 01:45	94.8	99.4	92.1	97.7	<input type="checkbox"/>
157	JKJPL	12/09/06 01:49	96.3	98.5	91.8	98.1	<input type="checkbox"/>
158	JKJPLP5	12/09/06 01:52	98.9	94.9	102.5	95.8	<input type="checkbox"/>
159	JKJPLZ	12/09/06 01:56	93.7	95.7	93.2	95.8	<input type="checkbox"/>
160	CCV 23	12/09/06 02:00	97.3	93.5	102.3	94.4	<input type="checkbox"/>
161	CCB 23	12/09/06 02:04	101.5	95.6	103.6	96.3	<input type="checkbox"/>
162	CCV 24	12/09/06 02:08	98.3	94.4	102.5	94.8	<input type="checkbox"/>
163	CCB 24	12/09/06 02:12	100.1	94.7	102.0	95.3	<input type="checkbox"/>
164	JKJPQ	12/09/06 02:16	99.7	99.5	93.2	98.6	<input type="checkbox"/>
165	JKJPR	12/09/06 02:20	99.4	100.0	92.7	99.5	<input type="checkbox"/>
166	JKJPPT	12/09/06 02:24	98.3	101.6	91.3	99.6	<input type="checkbox"/>
167	JKJPV	12/09/06 02:27	99.0	99.6	90.0	97.9	<input type="checkbox"/>
168	JKJP1	12/09/06 02:31	99.9	101.8	92.5	100.1	<input type="checkbox"/>
169	JKJP3	12/09/06 02:35	99.2	99.6	90.6	97.7	<input type="checkbox"/>
170	JKJP4	12/09/06 02:39	100.1	100.9	91.3	98.4	<input type="checkbox"/>
171	JKQKC	12/09/06 02:43	100.6	101.4	91.3	99.0	<input type="checkbox"/>
172	JKQKD	12/09/06 02:47	100.1	100.8	90.5	98.8	<input type="checkbox"/>
173	JKQKE	12/09/06 02:50	99.5	102.4	90.8	98.5	<input type="checkbox"/>
174	CCV 25	12/09/06 02:54	99.8	94.3	103.9	95.4	<input type="checkbox"/>
175	CCB 25	12/09/06 02:58	100.6	95.8	103.9	96.4	<input type="checkbox"/>
176	CCV 26	12/09/06 03:02	100.7	93.8	103.2	96.3	<input type="checkbox"/>
177	CCB 26	12/09/06 03:06	102.1	96.3	104.7	96.2	<input type="checkbox"/>
178	JKQKF	12/09/06 03:10	100.4	98.7	93.5	98.3	<input type="checkbox"/>
179	JKQKG	12/09/06 03:14	101.2	101.1	93.1	98.6	<input type="checkbox"/>
180	JKQKH	12/09/06 03:18	100.4	100.6	91.7	99.2	<input type="checkbox"/>
181	JKQKJ	12/09/06 03:22	101.3	101.1	92.6	99.9	<input type="checkbox"/>
182	JKQKK	12/09/06 03:26	100.3	101.7	92.7	100.3	<input type="checkbox"/>
183	CCV 27	12/09/06 03:30	99.9	94.2	105.1	94.5	<input type="checkbox"/>
184	CCB 27	12/09/06 03:34	100.5	95.4	104.1	96.0	<input type="checkbox"/>
185	CCV 28	12/09/06 03:38	98.9	94.6	105.4	96.6	<input type="checkbox"/>

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 12/10/06 18:02:08

File ID: 061208B1

Analyst: votawb

Germanium

Indium

Lithium-6

Thulium

Q

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
186	CCB 28	12/09/06 03:42	101.7	96.0	104.0	0.0	<input type="checkbox"/>

STL SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report

File Name: 6338322.mth
File Path: C:\elandata\Method\6338322.mth

Timing Parameters

Sweeps/Reading: 50
Readings/Replicate: 1
Number of Replicates: 3
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
QC Enabled: Yes
Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	Peak Hopping	1	14.0 ms	700 ms
Cu	64.928	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
Ba	134.906	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	Peak Hopping	1	14.0 ms	700 ms
Pb	207.977	Peak Hopping	1	14.0 ms	700 ms
Tm-1	168.934	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ni	60.931	Peak Hopping	1	5.0 ms	250 ms
Cu	62.930	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Br	78.918	Peak Hopping	1	20.0 ms	1000 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	107.904	Peak Hopping	1	5.0 ms	250 ms
Cd	113.904	Peak Hopping	1	14.0 ms	700 ms
In	114.904	Peak Hopping	1	14.0 ms	700 ms
207.977	207.977	Peak Hopping	1	14.0 ms	700 ms
Pb	206.976	Peak Hopping	1	14.0 ms	700 ms
Pb	205.975	Peak Hopping	1	14.0 ms	700 ms
Tm	168.934	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms
Kr	82.914	Peak Hopping	1	14.0 ms	700 ms
W	181.948	Peak Hopping	1	5.0 ms	250 ms

Signal Processing

Detector Mode: Dual

Report Date/Time: Sunday, December 10, 2006 17:47:40

Measurement Units: Counts
 AutoLens: On
 Spectral Peak Processing: Average
 Signal Profile Processing: Average
 Blank Subtraction: After Internal Standard
 Baseline Readings: 0
 Smoothing: Yes, Factor 5

Equations

Analyte	Mass	Corrections
Ni	59.933	-0.005 * Ca 43
Cu	64.928	-0.0078 * Ti 49
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Cd	110.904	-1.073 * Pd 108 + 0.712 * Pd 106
In-1	114.904	- 0.014032 * Sn 118
Pb	207.977	+ 1.0 * Pb 207 + 1.0 * Pb 206
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51
Cd	107.904	- 1.184953 * Pd 105
Cd	113.904	- 0.026826 * Sn 118
In	114.904	- 0.014032 * Sn 118

Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L	100			
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
Co	58.933	Linear Thru Zero	ug/L	ug/L	100			
Ni	59.933	Linear Thru Zero	ug/L	ug/L	100			
Cu	64.928	Linear Thru Zero	ug/L	ug/L	100			
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100			
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50			
Ba	134.906	Linear Thru Zero	ug/L	ug/L	100			
In-1	114.904	Linear Thru Zero	ug/L	ug/L				
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100			
Tm-1	168.934	Linear Thru Zero	ug/L	ug/L				
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100			
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100			
Ni	60.931	Linear Thru Zero	ug/L	ug/L	100			
Cu	62.930	Linear Thru Zero	ug/L	ug/L	100			
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100			
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100			
Br	78.918	Linear Thru Zero	ug/L	ug/L	100			
Ge	71.922	Linear Thru Zero	ug/L	ug/L				
Cd	107.904	Linear Thru Zero	ug/L	ug/L	100			
Cd	113.904	Linear Thru Zero	ug/L	ug/L	100			
In	114.904	Linear Thru Zero	ug/L	ug/L				
207.97207.977	207.977	Linear Thru Zero	ug/L	ug/L	100			
Pb	206.976	Linear Thru Zero	ug/L	ug/L	100			
Pb	205.975	Linear Thru Zero	ug/L	ug/L	100			

Report Date/Time: Sunday, December 10, 2006 17:47:40

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Tm	168.934	Linear Thru Zero	ug/L	ug/L	
Pd	105.903	Linear Thru Zero	ug/L	ug/L	100
Kr	82.914	Linear Thru Zero	ug/L	ug/L	100
W	181.948	Linear Thru Zero	ug/L	ug/L	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8

AIR TOX STANDARDS - 4 % HNO₃, 0.5 % HCl

Standards for run:

Tuning standard: 2830-25D

Internal standard: 2830-26A

Blank, CCBs: 2531-36A

Standard 1, CCVs: 2830-26D

ICV: 2830-18D

ICSA: 2830-26E

ICSAB: 2830-24A

File Number: 061208B1

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Friday, December 08, 2006 10:22:14

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	6.976	1562	0.732	2033	
Be	9.012	9.029	2057	0.722	2018	
Co	58.933	58.929	14288	0.734	1890	
In	114.904	114.928	27960	0.730	1852	
Ce	139.905	139.928	34032	0.734	1898	
Tl	204.975	204.979	49742	0.738	2119	
Pb	207.977	207.979	50464	0.724	2138	
U	238.050	238.078	57689	0.723	2300	

Report Date/Time: Friday, December 08, 2006 10:23:51

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Elan 6000 Instrument Optomization Report

File Name c:\elandata\Optimize\default.dac

Path c:\elandata\Optimize

Sample Information

Sample Date/Time: Friday, December 08, 2006 10:22:14

Sample ID: TUNE BJONES

Parameter Settings

Nebulizer Gas Flow	0.9
Lens Voltage	5.8
ICP RF Power	1100.0
Analog Stage Voltage	-2000.0
Pulse Stage Voltage	1400.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0
Exit Lens	0.0
Makeup Gas Flow [MGAS]	0.9
DRC Mode MGAS	0.9

AutoLens Calibration

Date: 10:26:42 Fri 08-Dec-06
Sample Filename: AUTOLENS BJONES.002
Dataset Pathname: 061208A1\

Lens Voltage Start: 3.00 V
Lens Voltage End: 7.00 V
Lens Voltage Step: 0.25 V
Slope: 0.0212
Intercept: 3.8758

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	4.0 V	6726 cps	17
Co	58.933	5.3 V	236692 cps	17
In	114.904	6.3 V	444868 cps	17

Dual Detector Calibration

Date: 17:37:42 Tue 21-Nov-06
Sample Filename: DUAL BJONES.786
Dataset Pathname: c:\elandata\Dataset\dual detector calibration\

Points Acquired: 37
Lens Voltage Start: -3.00 V
Lens Voltage End: 15.00 V
Lens Voltage Step: 0.50 V

Analyte	Mass	Gain	N(max)
Li	6.015	6179	2.03e+009 cps
Li	7.015	5714	2.19e+009 cps

Report Date/Time: Friday, December 08, 2006 10:28:38

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STL SACRAMENTO - Elan 6000 ICPMS, M01 - Methods 6020, 200.8

Be	9.010	5302 2.36e+009 cps
B	11.008	5606 2.23e+009 cps
Na	22.990	5556 2.25e+009 cps
Mg	23.985	5232 2.39e+009 cps
Mg	24.984	4999 2.50e+009 cps
Al	26.982	4963 2.52e+009 cps
P	30.993	4473 2.80e+009 cps
K	38.964	4411 2.84e+009 cps
Ca	42.959	4388 2.85e+009 cps
Ca	43.958	4355 2.87e+009 cps
Sc	44.957	4361 2.87e+009 cps
V	50.946	4270 2.93e+009 cps
Cr	51.940	4141 3.02e+009 cps
Fe	53.938	4148 3.02e+009 cps
Mn	54.937	4072 3.07e+009 cps
Fe	56.934	3911 3.20e+009 cps
Co	58.934	3958 3.16e+009 cps
Ni	59.933	3855 3.25e+009 cps
Cu	62.932	3779 3.31e+009 cps
Cu	64.926	3801 3.29e+009 cps
Zn	67.924	3852 3.25e+009 cps
Ge	71.921	3810 3.29e+009 cps
As	74.924	3750 3.34e+009 cps
Se	77.918	3912 3.20e+009 cps
Br	78.917	cps
Se	81.919	3761 3.33e+009 cps
Sr	87.907	3772 3.32e+009 cps
Mo	96.905	3809 3.29e+009 cps
Ag	106.907	3428 3.65e+009 cps
Ag	108.905	3415 3.67e+009 cps
Cd	110.904	3596 3.48e+009 cps
Cd	113.902	3581 3.50e+009 cps
In	114.904	3589 3.49e+009 cps
Sn	117.902	3631 3.45e+009 cps
Sb	120.904	3566 3.51e+009 cps
Ba	134.907	3540 3.54e+009 cps
Tm	168.936	3410 3.67e+009 cps
Tl	204.974	3272 3.83e+009 cps
Pb	207.975	3286 3.81e+009 cps
Bi	208.980	cps
U	238.050	3266 3.83e+009 cps

Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES

Sample Date/Time: Friday, December 08, 2006 10:28:53

Sample Description:

Sample File: C:\elandata\Sample\6340037X.sam

Method File: C:\elandata\Method\000-DAILY_EPA.mth

Dataset File: C:\elandata\Dataset\061208A1\DAILY BJONES.003

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Number of Replicates: 5

Dual Detector Mode: Dual

Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	64567.768	525.016	0.813
Rh	103	317486.625	9371.424	2.952
Pb	208	237092.647	1894.316	0.799
[> Ba	138	344436.034	2381.909	0.692
[< Ba++	69	0.022	0.000	1.702
[> Ce	140	418970.097	3581.273	0.855
[< CeO	156	0.031	0.001	2.300
Bkgd	220	2.000	1.278	63.888
Li	7	10453.801	289.406	2.768
Be	9	4178.413	78.159	1.871
Co	59	164937.063	907.411	0.550
In	115	401392.628	5917.747	1.474
Tl	205	342512.124	7698.645	2.248

SOP No. SAC-MT-0001

BJones

Sample ID: Rinse 3X

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:02:22

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\Rinse 3X.001

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1399444.276	ug/L	0.000	
6 Li-1					334452.196	ug/L	0.000	
9 Be					0.667	ug/L	0.000	
27 Al					65811.662	ug/L	0.000	
52 Cr					28859.521	ug/L	0.000	
55 Mn					4480.480	ug/L	0.000	
59 Co					77.667	ug/L	0.000	
60 Ni	0.004073	108.694			169.832	ug/L	182.642	
65 Cu					1674.960	ug/L	0.000	
68 Zn					3103.552	ug/L	0.000	
75 As					23444.215	ug/L	0.000	
72 Ge-1					1290778.976	ug/L	1497195.249	
111 Cd					56.358	ug/L	0.000	
121 Sb					187.002	ug/L	0.000	
135 Ba					139.001	ug/L	0.000	
115 In-1					1175053.912	ug/L	0.000	
208 Pb					3627.624	ug/L	0.000	
169 Tm-1					909597.242	ug/L	0.000	
50 Cr					-137.386	ug/L	0.000	
53 Cr					36512.256	ug/L	0.000	
61 Ni					2325.866	ug/L	0.000	
63 Cu					1214.236	ug/L	0.000	
67 Zn					1623.088	ug/L	0.000	
66 Zn					1267.259	ug/L	0.000	
79 Br					80381.667	ug/L	0.000	
72 Ge					1290778.976	ug/L	0.000	
108 Cd					-3.194	ug/L	0.000	
114 Cd					157.648	ug/L	0.000	
115 In					1175053.912	ug/L	0.000	
208 207.977					1879.869	ug/L	0.000	
207 Pb					785.369	ug/L	0.000	
206 Pb					962.386	ug/L	0.000	
169 Tm					909597.242	ug/L	0.000	
106 Pd					11.667	ug/L	0.000	
83 Kr					756.699	ug/L	0.000	

Report Date/Time: Friday, December 08, 2006 15:04:04

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Sample ID: Rinse 3X

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182 W

3.667 ug/L

0.000

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	86.213
Cd	111	
Sb	121	
Ba	135	
> In-1	115	
Pb	208	
> Tm-1	169	
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	
Cd	108	
Cd	114	
> In	115	
207.977	208	
Pb	207	
Pb	206	
> Tm	169	
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: Blank

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:06:35

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\Blank.002

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1383868.475		ug/L	
6 Li-1					332005.945		ug/L	
9 Be					0.667		ug/L	
27 Al					48926.803		ug/L	
52 Cr					29326.736		ug/L	
55 Mn					3709.453		ug/L	
59 Co					75.334		ug/L	
60 Ni					103.437		ug/L	
65 Cu					1328.513		ug/L	
68 Zn					1757.844		ug/L	
75 As					23329.983		ug/L	
72 Ge-1					1276080.893		ug/L	
111 Cd					48.866		ug/L	
121 Sb					154.001		ug/L	
135 Ba					135.668		ug/L	
115 In-1					1178167.322		ug/L	
208 Pb					2922.857		ug/L	
169 Tm-1					905312.737		ug/L	
50 Cr					-92.100		ug/L	
53 Cr					36494.330		ug/L	
61 Ni					2356.222		ug/L	
63 Cu					983.155		ug/L	
67 Zn					1546.383		ug/L	
66 Zn					669.405		ug/L	
79 Br					78439.355		ug/L	
72 Ge					1276080.893		ug/L	
108 Cd					-5.948		ug/L	
114 Cd					75.415		ug/L	
115 In					1178167.322		ug/L	
208 207.977					1536.802		ug/L	
207 Pb					632.690		ug/L	
206 Pb					753.366		ug/L	
169 Tm					905312.737		ug/L	
106 Pd					11.000		ug/L	
83 Kr					756.700		ug/L	

Report Date/Time: Friday, December 08, 2006 15:08:16

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Sample ID: Blank

G6K210180

STL Sacramento (916) 373 - 5600

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182 W

5.333 ug/L

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45
> Li-1	6
Be	9
Al	27
Cr	52
Mn	55
Co	59
Ni	60
Cu	65
Zn	68
As	75
> Ge-1	72
Cd	111
Sb	121
Ba	135
> In-1	115
Pb	208
> Tm-1	169
Cr	50
Cr	53
Ni	61
Cu	63
Zn	67
Zn	66
Br	79
> Ge	72
Cd	108
Cd	114
> In	115
207.977	208
Pb	207
Pb	206
> Tm	169
Pd	106
Kr	83
W	182

SOP No. SAC-MT-0001

BJones

Sample ID: Standard 1

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:10:43

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\Standard 1.003

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1394174.877	ug/L	1383868.475	
6 Li-1					342333.097	ug/L	332005.945	
9 Be	100.000000	0.799			27333.294	ug/L	0.667	
27 Al	5100.000000	0.658			33534183.844	ug/L	48926.803	
52 Cr	100.000000	0.460			1095847.119	ug/L	29326.736	
55 Mn	100.000000	1.488			1662959.974	ug/L	3709.453	
59 Co	100.000000	2.039			1234160.185	ug/L	75.334	
60 Ni	100.000000	1.601			267554.062	ug/L	103.437	
65 Cu	100.000000	0.493			287709.954	ug/L	1328.513	
68 Zn	100.000000	0.647			113860.706	ug/L	1757.844	
75 As	100.000000	0.906			294982.454	ug/L	23329.983	
72 Ge-1					1271740.069	ug/L	1276080.893	
111 Cd	100.000000	1.559			229889.880	ug/L	48.866	
121 Sb	50.000000	0.308			353304.131	ug/L	154.001	
135 Ba	100.000000	0.725			219002.899	ug/L	135.668	
115 In-1					1144319.608	ug/L	1178167.322	
208 Pb	100.000000	1.752			2933483.879	ug/L	2922.857	
169 Tm-1					884958.976	ug/L	905312.737	
50 Cr	100.000000	1.698			25643.812	ug/L	-92.100	
53 Cr	100.000000	2.662			85491.831	ug/L	36494.330	
61 Ni	100.000000	5.262			6741.269	ug/L	2356.222	
63 Cu	100.000000	1.175			208957.481	ug/L	983.155	
67 Zn	100.000000	0.708			11142.497	ug/L	1546.383	
66 Zn	100.000000	0.502			52658.639	ug/L	669.405	
79 Br	100.000000	3.150			52458.530	ug/L	78439.355	
72 Ge					1271740.069	ug/L	1276080.893	
108 Cd	100.000000	1.130			16771.076	ug/L	-5.948	
114 Cd	100.000000	1.232			526149.975	ug/L	75.415	
115 In					1144319.608	ug/L	1178167.322	
208 207.977	100.000000	1.673			1456117.347	ug/L	1536.802	
207 Pb	100.000000	2.211			638452.578	ug/L	632.690	
206 Pb	100.000000	2.169			838913.954	ug/L	753.366	
169 Tm					884958.976	ug/L	905312.737	
106 Pd	100.000000	0.671			21745.321	ug/L	11.000	
83 Kr	100.000000	173.341			771.367	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 15:12:23

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Sample ID: Standard 1

182 W

101.335 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45
[> Li-1	6
[< Be	9
[< Al	27
[< Cr	52
[< Mn	55
[< Co	59
[< Ni	60
[< Cu	65
[< Zn	68
[< As	75
[> Ge-1	72
[< Cd	111
[< Sb	121
[< Ba	135
[> In-1	115
[< Pb	208
[> Tm-1	169
[< Cr	50
[< Cr	53
[< Ni	61
[< Cu	63
[< Zn	67
[< Zn	66
[< Br	79
[> Ge	72
[< Cd	108
[< Cd	114
[> In	115
[< 207.977	208
[< Pb	207
[< Pb	206
[> Tm	169
Pd	106
Kr	83
W	182

Sample ID: ICV

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:14:35

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\ICV .004

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1377020.687	ug/L	1383868.475	
6 Li-1					329470.733	ug/L	332005.945	
9 Be	85.888226	1.215			22591.466	ug/L	0.667	
27 Al	841.171166	0.479			5554644.069	ug/L	48926.803	
52 Cr	83.269938	0.531			914578.466	ug/L	29326.736	
55 Mn	83.390905	1.485			1383104.529	ug/L	3709.453	
59 Co	83.008832	0.842			1021343.244	ug/L	75.334	
60 Ni	83.077440	0.710			221612.351	ug/L	103.437	
65 Cu	82.802982	1.584			237718.477	ug/L	1328.513	
68 Zn	83.604462	0.327			95189.325	ug/L	1757.844	
75 As	80.684386	2.071			241740.170	ug/L	23329.983	
72 Ge-1					1267851.747	ug/L	1276080.893	
111 Cd	81.661983	1.930			185787.215	ug/L	48.866	
121 Sb	40.391254	0.817			282474.689	ug/L	154.001	
135 Ba	80.953787	0.682			175475.054	ug/L	135.668	
115 In-1					1132447.657	ug/L	1178167.322	
208 Pb	86.098592	2.150			2445560.066	ug/L	2922.857	
169 Tm-1					856867.182	ug/L	905312.737	
50 Cr	74.471579	4.848			19018.623	ug/L	-92.100	
53 Cr	85.936237	2.780			78341.626	ug/L	36494.330	
61 Ni	75.081152	6.040			5628.735	ug/L	2356.222	
63 Cu	83.463897	1.377			174025.324	ug/L	983.155	
67 Zn	86.747894	2.045			9839.468	ug/L	1546.383	
66 Zn	84.364061	1.988			44390.782	ug/L	669.405	
79 Br	104.843279	4.334			51055.421	ug/L	78439.355	
72 Ge					1267851.747	ug/L	1276080.893	
108 Cd	79.041429	3.754			13115.266	ug/L	-5.948	
114 Cd	82.844621	2.298			431345.978	ug/L	75.415	
115 In					1132447.657	ug/L	1178167.322	
208 207.977	87.729229	3.240			1236801.057	ug/L	1536.802	
207 Pb	84.178134	1.226			520460.571	ug/L	632.690	
206 Pb	84.730347	2.000			688298.437	ug/L	753.366	
169 Tm					856867.182	ug/L	905312.737	
106 Pd	81.322342	1.676			17685.859	ug/L	11.000	
83 Kr	522.731813	26.131			833.373	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 15:16:15

Page 1

Sample ID: ICV

182 W

25.000 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	99.236
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	99.355
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	96.119
Pb	208	
[> Tm-1	169	94.649
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	99.355
Cd	108	
Cd	114	
[> In	115	96.119
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	94.649
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: ICB

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:18:31

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\ICB.005

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1423336.732	ug/L	1383868.475
6 Li-1			331658.787	ug/L	332005.945
9 Be	0.002480	228.664	1.333	ug/L	0.667
27 Al	-0.058251	135.148	49623.990	ug/L	48926.803
52 Cr	0.864265	7.830	39435.684	ug/L	29326.736
55 Mn	0.007479	56.419	3919.545	ug/L	3709.453
59 Co	0.001001	136.476	89.667	ug/L	75.334
60 Ni	-0.003209	119.237	96.916	ug/L	103.437
65 Cu	-0.097926	19.476	1070.365	ug/L	1328.513
68 Zn	-0.395018	1.325	1342.770	ug/L	1757.844
75 As	-0.172115	60.920	23370.199	ug/L	23329.983
72 Ge-1			1304533.939	ug/L	1276080.893
111 Cd	-0.002526	57.555	41.833	ug/L	48.866
121 Sb	0.122008	17.380	1015.393	ug/L	154.001
135 Ba	0.002584	88.401	138.001	ug/L	135.668
115 In-1			1149072.563	ug/L	1178167.322
208 Pb	-0.023174	4.885	2133.767	ug/L	2922.857
169 Tm-1			866978.749	ug/L	905312.737
50 Cr	-0.149876	42.871	-133.729	ug/L	-92.100
53 Cr	9.522691	34.809	42106.405	ug/L	36494.330
61 Ni	-3.869581	15.934	2234.465	ug/L	2356.222
63 Cu	-0.089653	9.712	813.773	ug/L	983.155
67 Zn	4.376706	21.364	2011.982	ug/L	1546.383
66 Zn	-0.476710	11.489	430.030	ug/L	669.405
79 Br	-0.700910	453.279	80372.242	ug/L	78439.355
72 Ge			1304533.939	ug/L	1276080.893
108 Cd	0.035762	73.823	0.224	ug/L	-5.948
114 Cd	0.005938	202.956	104.979	ug/L	75.415
115 In			1149072.563	ug/L	1178167.322
208 207.977	-0.025522	8.896	1107.737	ug/L	1536.802
207 Pb	-0.022732	10.379	464.012	ug/L	632.690
206 Pb	-0.019436	9.896	562.018	ug/L	753.366
169 Tm			866978.749	ug/L	905312.737
106 Pd	-0.024539	75.777	5.667	ug/L	11.000
83 Kr	643.188708	50.662	851.041	ug/L	756.700

182 W

5.667 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	99.895
[Be	9	
[Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	102.230
[Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.531
[Pb	208	
[> Tm-1	169	95.766
[Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	102.230
[Cd	108	
Cd	114	
[> In	115	97.531
[207.977	208	
Pb	207	
Pb	206	
[> Tm	169	95.766
Pd	106	
Kr	83	
W	182	

Sample ID: LL STD 10X

Sample Description: LL STD 10X

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:22:28

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\LL STD 10X.006

Tuning File: c:\elandata\Tuning\Default.tun

Optimization File: c:\elandata\Optimize\Default.dac

Autosampler Position: 9

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1566686.676	ug/L	1383868.475
6 Li-1			380393.277	ug/L	332005.945
9 Be	0.922008	7.168	280.338	ug/L	0.667
27 Al	55.114804	0.879	451877.201	ug/L	48926.803
52 Cr	1.571495	3.572	50610.327	ug/L	29326.736
55 Mn	1.111597	1.261	24365.553	ug/L	3709.453
59 Co	1.042091	1.884	14235.577	ug/L	75.334
60 Ni	1.085653	2.193	3308.436	ug/L	103.437
65 Cu	0.992448	3.614	4584.071	ug/L	1328.513
68 Zn	4.989046	1.102	8082.064	ug/L	1757.844
75 As	-0.264679	85.982	24789.608	ug/L	23329.983
72 Ge-1			1399426.093	ug/L	1276080.893
111 Cd	0.906591	0.866	2487.094	ug/L	48.866
121 Sb	0.462762	3.343	3987.909	ug/L	154.001
135 Ba	0.914587	1.890	2489.688	ug/L	135.668
115 In-1			1335448.569	ug/L	1178167.322
208 Pb	1.070685	1.956	37548.035	ug/L	2922.857
169 Tm-1			970935.088	ug/L	905312.737
50 Cr	1.352897	3.135	282.214	ug/L	-92.100
53 Cr	4.485197	39.923	42448.846	ug/L	36494.330
61 Ni	0.115679	2006.164	2590.075	ug/L	2356.222
63 Cu	0.989155	5.143	3342.121	ug/L	983.155
67 Zn	6.739041	13.183	2407.595	ug/L	1546.383
66 Zn	4.975248	2.551	3580.050	ug/L	669.405
79 Br	24.542217	9.441	79081.085	ug/L	78439.355
72 Ge			1399426.093	ug/L	1276080.893
108 Cd	0.885525	1.859	166.673	ug/L	-5.948
114 Cd	0.917692	2.556	5718.293	ug/L	75.415
115 In			1335448.569	ug/L	1178167.322
208 207.977	1.109082	3.097	19336.683	ug/L	1536.802
207 Pb	1.013371	2.253	7766.780	ug/L	632.690
206 Pb	1.047670	1.468	10444.572	ug/L	753.366
169 Tm			970935.088	ug/L	905312.737
106 Pd	1.134935	7.211	257.670	ug/L	11.000
83 Kr	-536.364537	58.433	678.026	ug/L	756.700

182 W

3.333 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	114.574
[Be	9	
[Al	27	
[Cr	52	
[Mn	55	
[Co	59	
[Ni	60	
[Cu	65	
[Zn	68	
[As	75	
[> Ge-1	72	109.666
[Cd	111	
[Sb	121	
[Ba	135	
[> In-1	115	113.350
[Pb	208	
[> Tm-1	169	107.249
[Cr	50	
[Cr	53	
[Ni	61	
[Cu	63	
[Zn	67	
[Zn	66	
[Br	79	
[> Ge	72	109.666
[Cd	108	
[Cd	114	
[> In	115	113.350
[207.977	208	
[Pb	207	
[Pb	206	
[> Tm	169	107.249
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: LL STD 5X

Sample Description: LL STD 5X

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:25:47

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\LL STD 5X.007

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 10

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1584716.785	ug/L	1383868.475	
6 Li-1					378855.040	ug/L	332005.945	
9 Be	1.790002	3.273			542.350	ug/L	0.667	
27 Al	108.957660 ✓	1.075			836773.249	ug/L	48926.803	
52 Cr	✓	2.876607	1.661		65605.718	ug/L	29326.736	
55 Mn	✓	2.243066	0.461		44804.083	ug/L	3709.453	
59 Co	✓	2.097922	0.853		28432.789	ug/L	75.334	
60 Ni	✓	2.184555	0.320		6510.888	ug/L	103.437	
65 Cu	✓	1.932349	0.528		7509.849	ug/L	1328.513	
68 Zn	10.427001	1.164			14719.037	ug/L	1757.844	
75 As	1.035676 ✓	17.051			28541.787	ug/L	23329.983	
72 Ge-1					1392643.119	ug/L	1276080.893	
111 Cd	1.804283	2.250			5060.754	ug/L	48.866	
121 Sb	0.870459	2.396			7597.631	ug/L	154.001	
135 Ba	1.787197	3.078			4878.026	ug/L	135.668	
115 In-1					1380670.192	ug/L	1178167.322	
208 Pb	2.180044	0.831			73641.019	ug/L	2922.857	
169 Tm-1					976400.459	ug/L	905312.737	
50 Cr	3.018198	5.398			750.203	ug/L	-92.100	
53 Cr	1.978374	94.827			40889.517	ug/L	36494.330	
61 Ni	4.682139	41.759			2796.585	ug/L	2356.222	
63 Cu	1.959481	3.749			5535.234	ug/L	983.155	
67 Zn	11.880104	12.269			2936.381	ug/L	1546.383	
66 Zn	10.783118	1.999			6869.543	ug/L	669.405	
79 Br	38.762762	14.242			74685.834	ug/L	78439.355	
72 Ge					1392643.119	ug/L	1276080.893	
108 Cd	1.529613	1.452			302.682	ug/L	-5.948	
114 Cd	1.800837	1.126			11518.997	ug/L	75.415	
115 In					1380670.192	ug/L	1178167.322	
208 207.977	2.293797	1.395			38467.037	ug/L	1536.802	
207 Pb	2.059936	1.098			15179.490	ug/L	632.690	
206 Pb	2.074046	1.891			19994.493	ug/L	753.366	
169 Tm					976400.459	ug/L	905312.737	
106 Pd	2.311314	5.632			513.348	ug/L	11.000	
83 Kr	3620.593097	35.003			1287.763	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 15:27:26

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Sample ID: LL STD 5X

182 W

4.000 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	114.111
{ Be	9	
[Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	109.134
{ Cd	111	.
Sb	121	
Ba	135	
[> In-1	115	117.188
{ Pb	208	
[> Tm-1	169	107.852
{ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	109.134
{ Cd	108	
Cd	114	
[> In	115	117.188
{ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	107.852
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: ICSA

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:30:53

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\ICSA.008

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1148746.909	ug/L	1383868.475	
6 Li-1					256509.906	ug/L	332005.945	
9 Be	0.043085	43.629			9.333	ug/L	0.667	
27 Al	94078.028013	1.005			502655961.264	ug/L	48926.803	
52 Cr	2.116290	6.369			42129.519	ug/L	29326.736	
55 Mn	5.104945	0.063			71922.115	ug/L	3709.453	
59 Co	2.553591	1.061			25699.027	ug/L	75.334	
60 Ni	3.272677	3.626			7204.957	ug/L	103.437	
65 Cu	0.470369	22.224			2170.158	ug/L	1328.513	
68 Zn	2.691103	4.714			3878.860	ug/L	1757.844	
75 As	0.172006	263.632			19284.171	ug/L	23329.983	
72 Ge-1					1034684.243	ug/L	1276080.893	
111 Cd	0.436424	10.609			915.281	ug/L	48.866	
121 Sb	0.270972	1.428			1798.185	ug/L	154.001	
135 Ba	0.864192	1.151			1763.178	ug/L	135.668	
115 In-1					997200.337	ug/L	1178167.322	
208 Pb	0.873779	1.132			22274.653	ug/L	2922.857	
169 Tm-1					692522.699	ug/L	905312.737	
50 Cr	232.131968	16.129			48465.336	ug/L	-92.100	
53 Cr	10.697455	23.565			33878.605	ug/L	36494.330	
61 Ni	24.967290	15.323			2803.259	ug/L	2356.222	
63 Cu	5.592258	1.708			10257.809	ug/L	983.155	
67 Zn	30.146470	5.487			3610.422	ug/L	1546.383	
66 Zn	8.511252	2.787			4142.411	ug/L	669.405	
79 Br	-20761.743173	1.900			4406127.168	ug/L	78439.355	
72 Ge					1034684.243	ug/L	1276080.893	
108 Cd	71.623399	1.609			10466.261	ug/L	-5.948	
114 Cd	4.275982	1.654			19669.037	ug/L	75.415	
115 In					997200.337	ug/L	1178167.322	
208 Pb	207.977	0.917735	1.587		11621.714	ug/L	1536.802	
207 Pb	0.866454	1.259			4808.988	ug/L	632.690	
206 Pb	0.803075	0.497			5843.951	ug/L	753.366	
169 Tm					692522.699	ug/L	905312.737	
106 Pd	0.671755	5.479			157.001	ug/L	11.000	
83 Kr	461.367266	20.119			824.372	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 15:32:32

Page 1

Sample ID: ICSA

G6K210180

STL Sacramento (916) 373 - 5600

73 of 189

182 W

943.142 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	77.261
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	81.083
Cd	111	
Sb	121	
Ba	135	
> In-1	115	84.640
Pb	208	
> Tm-1	169	76.495
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	81.083
Cd	108	
Cd	114	
> In	115	84.640
207.977	208	
Pb	207	
Pb	206	
> Tm	169	76.495
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:34:48

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\ICSAB.009

Tuning File: c:\elandata\Tuning\Default.tun

Optimization File: c:\elandata\Optimize\Default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1107689.667	ug/L	1383868.475	
6 Li-1					239966.974	ug/L	332005.945	
9 Be	93.511004	1.865			17919.677	ug/L	0.667	
27 Al	92513.132764	2.054			482246696.778	ug/L	48926.803	
52 Cr	107.194902	1.271			930855.521	ug/L	29326.736	
55 Mn	106.716216	1.106			1408599.856	ug/L	3709.453	
59 Co	105.253488	1.275			1031181.176	ug/L	75.334	
60 Ni	100.718904	0.982			213922.386	ug/L	103.437	
65 Cu	91.328397	0.599			208686.790	ug/L	1328.513	
68 Zn	93.709163	1.070			84792.567	ug/L	1757.844	
75 As	103.584962	0.320			241908.468	ug/L	23329.983	
72 Ge-1					1009597.947	ug/L	1276080.893	
111 Cd	99.352765	1.428			197900.079	ug/L	48.866	
121 Sb	51.231413	1.043			313648.848	ug/L	154.001	
135 Ba	104.541699	0.023			198382.576	ug/L	135.668	
115 In-1					991538.686	ug/L	1178167.322	
208 Pb	104.818743	1.484			2359458.579	ug/L	2922.857	
169 Tm-1					679137.047	ug/L	905312.737	
50 Cr	299.210917	4.466			61061.217	ug/L	-92.100	
53 Cr	106.846380	4.358			70535.432	ug/L	36494.330	
61 Ni	124.279742	5.139			6198.480	ug/L	2356.222	
63 Cu	97.680518	0.950			162050.950	ug/L	983.155	
67 Zn	120.025072	1.253			10372.186	ug/L	1546.383	
66 Zn	102.949772	0.693			43020.770	ug/L	669.405	
79 Br	-216.273109	15.389			106209.196	ug/L	78439.355	
72 Ge					1009597.947	ug/L	1276080.893	
108 Cd	167.244154	1.838			24305.092	ug/L	-5.948	
114 Cd	102.077808	1.174			465358.739	ug/L	75.415	
115 In					991538.686	ug/L	1178167.322	
208 Pb	107.204797	1.823			1197763.991	ug/L	1536.802	
207 Pb	101.741845	1.568			498471.094	ug/L	632.690	
206 Pb	103.019635	0.918			663223.494	ug/L	753.366	
169 Tm					679137.047	ug/L	905312.737	
106 Pd	88.030909	0.850			19143.920	ug/L	11.000	
83 Kr	1118.197874	8.716			920.715	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 15:36:27

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Sample ID: ICSAB

182 W

1003.495 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	72.278
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	79.117
Cd	111	
Sb	121	
Ba	135	
> In-1	115	84.159
Pb	208	
> Tm-1	169	75.017
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	79.117
Cd	108	
Cd	114	
> In	115	84.159
207.977	208	
Pb	207	
Pb	206	
> Tm	169	75.017
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:38:44

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\Rinse.010

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				1306332.786	ug/L	1383868.475
6 Li-1				266714.114	ug/L	332005.945
9 Be	0.000604	447.075		0.667	ug/L	0.667
27 Al	3.245982	9.763		68393.392	ug/L	48926.803
52 Cr	0.283443	20.488		31477.528	ug/L	29326.736
55 Mn	0.038977	24.886		4239.361	ug/L	3709.453
59 Co	0.003270	12.524		112.667	ug/L	75.334
60 Ni	0.022359	30.848		158.963	ug/L	103.437
65 Cu	-0.111644	12.049		980.176	ug/L	1328.513
68 Zn	0.385286	8.330		2131.593	ug/L	1757.844
75 As	0.179582	97.998		23169.780	ug/L	23329.983
72 Ge-1				1241305.492	ug/L	1276080.893
111 Cd	-0.000692	267.466		49.455	ug/L	48.866
121 Sb	0.003385	49.068		187.002	ug/L	154.001
135 Ba	0.004628	72.746		153.001	ug/L	135.668
115 In-1				1233601.683	ug/L	1178167.322
208 Pb	-0.003595	36.154		2711.496	ug/L	2922.857
169 Tm-1				871988.042	ug/L	905312.737
50 Cr	-0.048241	118.203		-101.714	ug/L	-92.100
53 Cr	2.281084	174.909		36590.658	ug/L	36494.330
61 Ni	-1.643784	145.398		2221.457	ug/L	2356.222
63 Cu	-0.115583	7.646		721.750	ug/L	983.155
67 Zn	3.620476	29.884		1843.545	ug/L	1546.383
66 Zn	0.430888	11.882		869.788	ug/L	669.405
79 Br	-126.528699	11.621		108054.679	ug/L	78439.355
72 Ge				1241305.492	ug/L	1276080.893
108 Cd	0.093453	5.783		10.680	ug/L	-5.948
114 Cd	0.008332	148.102		126.006	ug/L	75.415
115 In				1233601.683	ug/L	1178167.322
208 207.977	-0.004851	62.311		1410.780	ug/L	1536.802
207 Pb	-0.005949	44.373		572.019	ug/L	632.690
206 Pb	0.000374	465.229		728.697	ug/L	753.366
169 Tm				871988.042	ug/L	905312.737
106 Pd	-0.013803	57.735		8.000	ug/L	11.000
83 Kr	-93.183022	120.897		743.032	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 15:40:26

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Sample ID: Rinse

182 W

3.333 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	80.334
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	97.275
Cd	111	
Sb	121	
Ba	135	
> In-1	115	104.705
Pb	208	
> Tm-1	169	96.319
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	97.275
Cd	108	
Cd	114	
> In	115	104.705
207.977	208	
Pb	207	
Pb	206	
> Tm	169	96.319
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: CCV 1

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:42:42

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCV 1.011

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1307783.073	ug/L	1383868.475	
6 Li-1					279036.546	ug/L	332005.945	
9 Be	98.485290	1.792			21944.828	ug/L	0.667	
27 Al	4587.953437	2.874			29694050.941	ug/L	48926.803	
52 Cr	99.408261	2.685			1072313.255	ug/L	29326.736	
55 Mn	98.363612	1.636			1610339.888	ug/L	3709.453	
59 Co	100.303531	1.588			1218451.839	ug/L	75.334	
60 Ni	100.509521	0.954			264706.202	ug/L	103.437	
65 Cu	99.685149	2.003			282310.449	ug/L	1328.513	
68 Zn	97.492008	0.929			109310.663	ug/L	1757.844	
75 As	100.597472	1.404			291934.439	ug/L	23329.983	
72 Ge-1					1251812.897	ug/L	1276080.893	
111 Cd	101.611636	0.468			243057.919	ug/L	48.866	
121 Sb	49.466325	0.487			363670.083	ug/L	154.001	
135 Ba	97.828925	1.383			222944.516	ug/L	135.668	
115 In-1					1190612.466	ug/L	1178167.322	
208 Pb	100.970264	1.231			2902281.441	ug/L	2922.857	
169 Tm-1					867100.363	ug/L	905312.737	
50 Cr	101.062105	2.112			25507.220	ug/L	-92.100	
53 Cr	89.928440	4.491			79276.659	ug/L	36494.330	
61 Ni	96.692585	2.313			6492.405	ug/L	2356.222	
63 Cu	98.528662	2.005			202656.860	ug/L	983.155	
67 Zn	95.931864	1.579			10582.891	ug/L	1546.383	
66 Zn	98.509947	1.755			51066.583	ug/L	669.405	
79 Br	26.536732	26.587			70224.439	ug/L	78439.355	
72 Ge					1251812.897	ug/L	1276080.893	
108 Cd	101.935022	1.768			17790.113	ug/L	-5.948	
114 Cd	100.155281	1.084			548281.161	ug/L	75.415	
115 In					1190612.466	ug/L	1178167.322	
208 Pb	207.977	100.654250	1.778		1436074.839	ug/L	1536.802	
207 Pb	100.785180	2.421			630539.279	ug/L	632.690	
206 Pb	101.659499	0.605			835667.323	ug/L	753.366	
169 Tm					867100.363	ug/L	905312.737	
106 Pd	108.630833	0.387			23621.174	ug/L	11.000	
83 Kr	390.911798	18.210			814.038	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 15:44:23

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Sample ID: CCV 1

G6K210180

STL Sacramento (916) 373 - 5600

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182 W

102.002 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	84.046
_ Be	9	
_ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	98.098
Cd	111	
Sb	121	
Ba	135	
> In-1	115	101.056
Pb	208	
> Tm-1	169	95.779
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	98.098
Cd	108	
Cd	114	
> In	115	101.056
207.977	208	
Pb	207	
Pb	206	
> Tm	169	95.779
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 1

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:47:44

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCB 1.012

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc			1337042.154	ug/L	1383868.475	
6 Li-1			284961.155	ug/L	332005.945	
9 Be	0.001881	5.009	1.000	ug/L	0.667	
27 Al	-0.417417	17.410	46383.954	ug/L	48926.803	
52 Cr	0.332172	12.448	33029.227	ug/L	29326.736	
55 Mn	0.010171	49.485	3896.201	ug/L	3709.453	
59 Co	0.001148	109.891	90.000	ug/L	75.334	
60 Ni	0.005957	100.039	119.912	ug/L	103.437	
65 Cu	-0.185357	4.266	799.507	ug/L	1328.513	
68 Zn	-0.438241	11.464	1270.426	ug/L	1757.844	
75 As	0.219338	128.208	24035.438	ug/L	23329.983	
72 Ge-1			1281835.322	ug/L	1276080.893	
111 Cd	-0.004532	129.723	38.723	ug/L	48.866	
121 Sb	0.000546	108.291	160.668	ug/L	154.001	
135 Ba	0.001596	166.856	141.668	ug/L	135.668	
115 In-1			1198190.822	ug/L	1178167.322	
208 Pb	-0.029227	2.324	1981.421	ug/L	2922.857	
169 Tm-1			876509.044	ug/L	905312.737	
50 Cr	-0.079491	158.736	-113.236	ug/L	-92.100	
53 Cr	2.469515	98.147	37882.393	ug/L	36494.330	
61 Ni	-4.969934	7.606	2146.737	ug/L	2356.222	
63 Cu	-0.197230	7.344	574.053	ug/L	983.155	
67 Zn	2.882692	37.924	1832.205	ug/L	1546.383	
66 Zn	-0.546362	9.454	386.024	ug/L	669.405	
79 Br	-59.299763	15.026	94162.478	ug/L	78439.355	
72 Ge			1281835.322	ug/L	1276080.893	
108 Cd	0.083279	15.234	8.594	ug/L	-5.948	
114 Cd	0.005641	28.464	107.802	ug/L	75.415	
115 In			1198190.822	ug/L	1178167.322	
208 207.977	-0.030437	2.361	1049.396	ug/L	1536.802	
207 Pb	-0.031774	11.728	411.676	ug/L	632.690	
206 Pb	-0.025189	7.965	520.349	ug/L	753.366	
169 Tm			876509.044	ug/L	905312.737	
106 Pd	-0.013803	88.192	8.000	ug/L	11.000	
83 Kr	213.637156	26.124	788.035	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 15:49:25

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Sample ID: CCB 1

G6K210180

STL Sacramento (916) 373 - 5600

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182 W

5.000 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	85.830
[< Be	9	
[< Al	27	
[< Cr	52	
[< Mn	55	
[< Co	59	
[< Ni	60	
[< Cu	65	
[< Zn	68	
[< As	75	
[> Ge-1	72	100.451
[< Cd	111	
[< Sb	121	
[< Ba	135	
[> In-1	115	101.700
[< Pb	208	
[> Tm-1	169	96.818
[< Cr	50	
[< Cr	53	
[< Ni	61	
[< Cu	63	
[< Zn	67	
[< Zn	66	
[< Br	79	
[> Ge	72	100.451
[< Cd	108	
[< Cd	114	
[> In	115	101.700
[< 207.977	208	
[< Pb	207	
[< Pb	206	
[> Tm	169	96.818
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 2

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:51:42

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCV 2.013

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1330908.553	ug/L	1383868.475	
6 Li-1					284851.318	ug/L	332005.945	
9 Be	100.262023	1.687			22800.344	ug/L	0.667	
27 Al	4703.392290	0.939			30656423.118	ug/L	48926.803	
52 Cr	100.881203	0.642			1095409.772	ug/L	29326.736	
55 Mn	98.926381	1.353			1630461.239	ug/L	3709.453	
59 Co	101.153202	1.054			1237187.790	ug/L	75.334	
60 Ni	101.540774	1.059			269254.202	ug/L	103.437	
65 Cu	99.839993	0.686			284685.674	ug/L	1328.513	
68 Zn	98.544679	0.841			111232.632	ug/L	1757.844	
75 As	102.161357	1.104			298202.613	ug/L	23329.983	
72 Ge-1					1260449.995	ug/L	1276080.893	
111 Cd	101.351764	0.501			239365.478	ug/L	48.866	
121 Sb	50.136481	1.342			363885.744	ug/L	154.001	
135 Ba	98.462771	2.374			221480.047	ug/L	135.668	
115 In-1					1175510.516	ug/L	1178167.322	
208 Pb	101.372029	1.588			2881582.419	ug/L	2922.857	
169 Tm-1					857687.840	ug/L	905312.737	
50 Cr	99.089049	3.119			25180.164	ug/L	-92.100	
53 Cr	92.449833	3.010			81052.165	ug/L	36494.330	
61 Ni	94.570601	4.206			6443.972	ug/L	2356.222	
63 Cu	100.497855	0.979			208111.783	ug/L	983.155	
67 Zn	98.981233	1.360			10946.475	ug/L	1546.383	
66 Zn	99.347794	0.979			51851.302	ug/L	669.405	
79 Br	56.069714	10.018			63195.110	ug/L	78439.355	
72 Ge					1260449.995	ug/L	1276080.893	
108 Cd	102.467445	1.111			17652.703	ug/L	-5.948	
114 Cd	100.537227	1.121			543374.780	ug/L	75.415	
115 In					1175510.516	ug/L	1178167.322	
208 207.977	100.803271	1.205			1422404.924	ug/L	1536.802	
207 Pb	102.209306	1.946			632330.111	ug/L	632.690	
206 Pb	101.721855	2.467			826847.385	ug/L	753.366	
169 Tm					857687.840	ug/L	905312.737	
106 Pd	106.691707	1.232			23199.718	ug/L	11.000	
83 Kr	590.914590	14.427			843.374	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 15:53:22

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Sample ID: CCV 2

G6K210180

STL Sacramento (916) 373 - 5600

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182 W

96.335 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	85.797
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	98.775
Cd	111	
Sb	121	
Ba	135	
> In-1	115	99.774
Pb	208	
> Tm-1	169	94.739
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	98.775
Cd	108	
Cd	114	
> In	115	99.774
207.977	208	
Pb	207	
Pb	206	
> Tm	169	94.739
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 2

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 15:55:39

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCB 2.014

Tuning File: c:\elandata\Tuning\Default.tun

Optimization File: c:\elandata\Optimize\Default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1361150.914	ug/L	1383868.475
6 Li-1			284936.347	ug/L	332005.945
9 Be	0.003356	76.822	1.333	ug/L	0.667
27 Al	-0.231251	41.820	47728.825	ug/L	48926.803
52 Cr	0.364396	4.840	33456.845	ug/L	29326.736
55 Mn	0.013804	42.766	3966.232	ug/L	3709.453
59 Co	0.002363	30.366	105.334	ug/L	75.334
60 Ni	0.000631	677.091	105.902	ug/L	103.437
65 Cu	-0.193757	3.676	777.015	ug/L	1328.513
68 Zn	-0.511975	0.783	1190.081	ug/L	1757.844
75 As	0.184101	31.769	23997.253	ug/L	23329.983
72 Ge-1			1284914.107	ug/L	1276080.893
111 Cd	0.001125	182.539	53.067	ug/L	48.866
121 Sb	-0.000972	259.654	151.335	ug/L	154.001
135 Ba	0.004599	33.235	150.335	ug/L	135.668
115 In-1			1212744.876	ug/L	1178167.322
208 Pb	-0.028370	15.502	2006.424	ug/L	2922.857
169 Tm-1			876933.625	ug/L	905312.737
50 Cr	-0.107108	98.175	-120.707	ug/L	-92.100
53 Cr	0.205468	1717.298	36849.662	ug/L	36494.330
61 Ni	-6.281004	28.272	2093.702	ug/L	2356.222
63 Cu	-0.194016	6.519	582.388	ug/L	983.155
67 Zn	2.584578	40.311	1807.857	ug/L	1546.383
66 Zn	-0.539379	6.601	390.691	ug/L	669.405
79 Br	-44.856530	21.184	90630.836	ug/L	78439.355
72 Ge			1284914.107	ug/L	1276080.893
108 Cd	0.052770	55.118	3.260	ug/L	-5.948
114 Cd	0.005579	179.111	108.543	ug/L	75.415
115 In			1212744.876	ug/L	1178167.322
208 207.977	-0.028963	14.047	1070.732	ug/L	1536.802
207 Pb	-0.029984	23.342	423.010	ug/L	632.690
206 Pb	-0.026112	16.559	512.682	ug/L	753.366
169 Tm			876933.625	ug/L	905312.737
106 Pd	-0.018404	25.000	7.000	ug/L	11.000
83 Kr	495.458923	48.952	829.373	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 15:57:21

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Sample ID: CCB 2

G6K210180

STL Sacramento (916) 373 - 5600

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182 W

5.000 ug/L

5.333

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	85.823
Be	9	
[Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	100.692
[Cd	111	
Sb	121	
Ba	135	
[> In-1	115	102.935
[Pb	208	
[> Tm-1	169	96.865
[Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	100.692
[Cd	108	
Cd	114	
[> In	115	102.935
[207.977	208	
Pb	207	
Pb	206	
[> Tm	169	96.865
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JKQP3C

Sample Description: G6L040000-322 LCS

Batch ID: 6338322

Sample Date/Time: Friday, December 08, 2006 15:59:29

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\JKQP3C.015

Tuning File: c:\elandata\Tuning\Default.tun

Optimization File: c:\elandata\Optimize\Default.dac

Autosampler Position: 100

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1291883.907	ug/L	1383868.475
6 Li-1			274307.450	ug/L	332005.945
9 Be	169.411575	1.056	37104.530	ug/L	0.667
27 Al	848.407445	0.600	5339686.463	ug/L	48926.803
52 Cr	182.112850	1.080	1873421.362	ug/L	29326.736
55 Mn	186.538178	1.134	2944140.810	ug/L	3709.453
59 Co	182.333648	0.742	2138050.340	ug/L	75.334
60 Ni	188.708947	0.980	479731.848	ug/L	103.437
65 Cu	184.506973	2.174	503394.303	ug/L	1328.513
68 Zn	172.802305	0.929	185760.641	ug/L	1757.844
75 As	175.396731	0.253	474987.129	ug/L	23329.983
72 Ge-1			1208432.389	ug/L	1276080.893
111 Cd	177.242481	1.283	426238.978	ug/L	48.866
121 Sb	41.046573	1.780	303456.984	ug/L	154.001
135 Ba	181.625616	1.254	415999.660	ug/L	135.668
115 In-1			1197111.754	ug/L	1178167.322
208 Pb	183.919431	2.449	5400680.419	ug/L	2922.857
169 Tm-1			886473.858	ug/L	905312.737
50 Cr	166.244123	0.939	40568.592	ug/L	-92.100
53 Cr	132.581558	1.512	96453.689	ug/L	36494.330
61 Ni	187.710855	2.675	10065.522	ug/L	2356.222
63 Cu	182.951198	2.206	362452.535	ug/L	983.155
67 Zn	163.650092	1.215	16392.551	ug/L	1546.383
66 Zn	172.954504	0.918	86071.382	ug/L	669.405
79 Br	194.774938	3.134	26709.281	ug/L	78439.355
72 Ge			1208432.389	ug/L	1276080.893
108 Cd	172.781282	1.759	30319.092	ug/L	-5.948
114 Cd	173.018445	2.028	952292.475	ug/L	75.415
115 In			1197111.754	ug/L	1178167.322
208 207.977	191.270621	2.882	2787637.437	ug/L	1536.802
207 Pb	189.770314	2.399	1212791.581	ug/L	632.690
206 Pb	166.710291	1.790	1400251.400	ug/L	753.366
169 Tm			886473.858	ug/L	905312.737
106 Pd	190.226788	0.447	41355.501	ug/L	11.000
83 Kr	290.910814	62.202	799.370	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 16:01:07

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Sample ID: JKQP3C

182 W

83.001 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	82.621
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	94.699
Cd	111	
Sb	121	
Ba	135	
> In-1	115	101.608
Pb	208	
> Tm-1	169	97.919
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	94.699
Cd	108	
Cd	114	
> In	115	101.608
207.977	208	
Pb	207	
Pb	206	
> Tm	169	97.919
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JKQP3L

Sample Description: G6L040000-322 LCSD

Batch ID: 6338322

Sample Date/Time: Friday, December 08, 2006 16:03:16

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\JKQP3L.016

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 101

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1286129.995	ug/L	1383868.475	
6 Li-1					277687.001	ug/L	332005.945	
9 Be	172.445950	0.462			38236.710	ug/L	0.667	
27 Al	874.270437	0.842			5420971.668	ug/L	48926.803	
52 Cr	187.366668	1.776			1898734.856	ug/L	29326.736	
55 Mn	192.379878	1.715			2992483.894	ug/L	3709.453	
59 Co	188.674993	2.501			2180287.757	ug/L	75.334	
60 Ni	193.219608	2.079			483986.096	ug/L	103.437	
65 Cu	189.025507	1.714			508152.485	ug/L	1328.513	
68 Zn	179.503513	1.591			190081.964	ug/L	1757.844	
75 As	180.787811	0.740			481796.203	ug/L	23329.983	
72 Ge-1					1190912.661	ug/L	1276080.893	
111 Cd	182.649271	2.342			433530.196	ug/L	48.866	
121 Sb	43.179037	3.669			314996.845	ug/L	154.001	
135 Ba	185.826892	2.005			420107.818	ug/L	135.668	
115 In-1					1181889.858	ug/L	1178167.322	
208 Pb	193.521368	1.003			5522668.949	ug/L	2922.857	
169 Tm-1					861253.309	ug/L	905312.737	
50 Cr	175.944089	1.780			42315.417	ug/L	-92.100	
53 Cr	134.531916	4.026			95934.379	ug/L	36494.330	
61 Ni	191.354547	4.071			10069.873	ug/L	2356.222	
63 Cu	186.575534	1.808			364269.630	ug/L	983.155	
67 Zn	170.694455	1.363			16789.986	ug/L	1546.383	
66 Zn	179.390912	0.058			87964.539	ug/L	669.405	
79 Br	196.262076	4.255			25939.985	ug/L	78439.355	
72 Ge					1190912.661	ug/L	1276080.893	
108 Cd	179.101062	1.502			31026.233	ug/L	-5.948	
114 Cd	179.370306	1.771			974504.634	ug/L	75.415	
115 In					1181889.858	ug/L	1178167.322	
208 Pb	200.919977	1.658			2845985.862	ug/L	1536.802	
207 Pb	200.474697	0.485			1245171.799	ug/L	632.690	
206 Pb	175.390994	0.911			1431511.288	ug/L	753.366	
169 Tm					861253.309	ug/L	905312.737	
106 Pd	194.621767	0.650			42310.720	ug/L	11.000	
83 Kr	363.638728	12.990			810.037	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 16:04:55

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Sample ID: JKQP3L

182 W

77.334 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	83.639
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	93.326
Cd	111	
Sb	121	
Ba	135	
> In-1	115	100.316
Pb	208	
> Tm-1	169	95.133
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	93.326
Cd	108	
Cd	114	
> In	115	100.316
207.977	208	
Pb	207	
Pb	206	
> Tm	169	95.133
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 16:07:12

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\Rinse.017

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1320307.164	ug/L	1383868.475
6 Li-1			291373.048	ug/L	332005.945
9 Be	0.009009	73.995	2.667	ug/L	0.667
27 Al	2.571338	3.580	63560.698	ug/L	48926.803
52 Cr	0.613421	4.078	34636.425	ug/L	29326.736
55 Mn	0.056660	3.550	4490.152	ug/L	3709.453
59 Co	0.005242	29.686	135.334	ug/L	75.334
60 Ni	0.022780	12.837	158.843	ug/L	103.437
65 Cu	-0.122167	3.292	943.447	ug/L	1328.513
68 Zn	0.360642	3.124	2087.916	ug/L	1757.844
75 As	-0.017056	2489.601	22461.368	ug/L	23329.983
72 Ge-1			1231528.714	ug/L	1276080.893
111 Cd	0.007547	71.032	66.979	ug/L	48.866
121 Sb	0.455594	17.506	3485.708	ug/L	154.001
135 Ba	0.015187	26.537	170.668	ug/L	135.668
115 In-1			1183547.283	ug/L	1178167.322
208 Pb	0.000246	1243.403	2810.842	ug/L	2922.857
169 Tm-1			868630.549	ug/L	905312.737
50 Cr	-0.152116	52.504	-127.031	ug/L	-92.100
53 Cr	-1.930309	79.676	34307.448	ug/L	36494.330
61 Ni	-4.207068	43.818	2094.369	ug/L	2356.222
63 Cu	-0.135393	8.703	676.073	ug/L	983.155
67 Zn	2.104182	37.242	1688.123	ug/L	1546.383
66 Zn	0.318883	9.822	806.437	ug/L	669.405
79 Br	-37.955618	11.710	85143.697	ug/L	78439.355
72 Ge			1231528.714	ug/L	1276080.893
108 Cd	0.054574	17.364	3.495	ug/L	-5.948
114 Cd	0.017777	50.912	172.309	ug/L	75.415
115 In			1183547.283	ug/L	1178167.322
208	207.977	-0.000132	2725.801	ug/L	1536.802
207 Pb	-0.002153	200.579	593.687	ug/L	632.690
206 Pb	0.002727	134.593	745.032	ug/L	753.366
169 Tm			868630.549	ug/L	905312.737
106 Pd	0.006135	173.205	12.333	ug/L	11.000
83 Kr	161.364051	83.051	780.368	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 16:08:54

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Sample ID: Rinse

182 W

2.667 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	87.761
[Be	9	
[Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	96.509
[Cd	111	
Sb	121	
Ba	135	
[> In-1	115	100.457
[Pb	208	
[> Tm-1	169	95.948
[Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	96.509
[Cd	108	
Cd	114	
[> In	115	100.457
[207.977	208	
Pb	207	
Pb	206	
[> Tm	169	95.948
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JKQP3B

Sample Description: G6L040000-322 BLK

Batch ID: 6338322

Sample Date/Time: Friday, December 08, 2006 16:11:05

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\JKQP3B.018

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 15

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1299723.231	ug/L	1383868.475	
6 Li-1					270321.761	ug/L	332005.945	
9 Be	0.000658	835.043			0.667	ug/L	0.667	
27 Al	-0.705592	12.781			41840.495	ug/L	48926.803	
52 Cr	-0.137294	34.017			26322.546	ug/L	29326.736	
55 Mn	1.617882	2.444			28952.492	ug/L	3709.453	
59 Co	0.013741	6.928			232.003	ug/L	75.334	
60 Ni	0.326462	2.945			925.434	ug/L	103.437	
65 Cu	0.119358	14.001			1579.053	ug/L	1328.513	
68 Zn	2.894270	0.812			4737.950	ug/L	1757.844	
75 As	0.272114	84.978			22739.864	ug/L	23329.983	
72 Ge-1					1205833.224	ug/L	1276080.893	
111 Cd	0.012203	36.326			80.047	ug/L	48.866	
121 Sb	0.147657	9.360			1264.759	ug/L	154.001	
135 Ba	0.716004	0.557			1801.185	ug/L	135.668	
115 In-1					1213219.860	ug/L	1178167.322	
208 Pb	-0.002411	62.994			2822.511	ug/L	2922.857	
169 Tm-1					896596.896	ug/L	905312.737	
50 Cr	0.791634	3.570			106.106	ug/L	-92.100	
53 Cr	-45.346365	5.472			13378.448	ug/L	36494.330	
61 Ni	-4.513360	22.034			2038.665	ug/L	2356.222	
63 Cu	0.116374	24.841			1158.215	ug/L	983.155	
67 Zn	-3.076586	34.325			1182.225	ug/L	1546.383	
66 Zn	3.054194	6.861			2139.067	ug/L	669.405	
79 Br	212.248718	2.023			22384.080	ug/L	78439.355	
72 Ge					1205833.224	ug/L	1276080.893	
108 Cd	0.077417	22.608			7.655	ug/L	-5.948	
114 Cd	0.023813	6.937			210.429	ug/L	75.415	
115 In					1213219.860	ug/L	1178167.322	
208 Pb	-0.002501	8.040			1485.126	ug/L	1536.802	
207 Pb	-0.000171	7577.796			624.356	ug/L	632.690	
206 Pb	-0.003959	117.132			713.029	ug/L	753.366	
169 Tm					896596.896	ug/L	905312.737	
106 Pd	0.009202	100.000			13.000	ug/L	11.000	
83 Kr	-163.637717	106.419			732.697	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 16:12:45

Page 1

Sample ID: JKQP3B

G6K210180

STL Sacramento (916) 373 - 5600

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182 W

7.667 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	81.421
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	94.495
Cd	111	
Sb	121	
Ba	135	
> In-1	115	102.975
Pb	208	
> Tm-1	169	99.037
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	94.495
Cd	108	
Cd	114	
> In	115	102.975
207.977	208	
Pb	207	
Pb	206	
> Tm	169	99.037
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: Control BLK

Sample Description: Control BLK

Batch ID:

Sample Date/Time: Friday, December 08, 2006 16:15:01

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\Control BLK.019

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 16

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1414049.867	ug/L	1383868.475
6 Li-1			305659.706	ug/L	332005.945
9 Be	0.000206	1145.352	0.667	ug/L	0.667
27 Al	23.086957	1.862	206330.320	ug/L	48926.803
52 Cr	2.243148	2.953	54739.726	ug/L	29326.736
55 Mn	2.247640	1.251	42211.240	ug/L	3709.453
59 Co	1.975413	1.604	25183.533	ug/L	75.334
60 Ni	1.937196	1.060	5441.573	ug/L	103.437
65 Cu	1.486118	0.758	5746.339	ug/L	1328.513
68 Zn	17.340264	0.606	21824.185	ug/L	1757.844
75 As	-0.622370	22.926	22200.905	ug/L	23329.983
72 Ge-1			1309669.616	ug/L	1276080.893
111 Cd	0.055556	9.844	201.129	ug/L	48.866
121 Sb	0.183372	1.144	1658.824	ug/L	154.001
135 Ba	1.673249	1.355	4355.751	ug/L	135.668
115 In-1			1313790.094	ug/L	1178167.322
208 Pb	0.233182	3.389	10589.485	ug/L	2922.857
169 Tm-1			967160.055	ug/L	905312.737
50 Cr	2.009847	5.164	438.091	ug/L	-92.100
53 Cr	-43.093365	6.454	15660.712	ug/L	36494.330
61 Ni	3.258757	120.211	2566.391	ug/L	2356.222
63 Cu	1.540664	3.026	4308.636	ug/L	983.155
67 Zn	8.932624	9.237	2470.644	ug/L	1546.383
66 Zn	17.894721	1.843	10267.508	ug/L	669.405
79 Br	220.319339	2.366	22166.364	ug/L	78439.355
72 Ge			1309669.616	ug/L	1276080.893
108 Cd	0.320073	8.158	55.002	ug/L	-5.948
114 Cd	0.047685	6.161	372.209	ug/L	75.415
115 In			1313790.094	ug/L	1178167.322
208 Pb	0.244837	4.356	5532.749	ug/L	1536.802
207 Pb	0.235350	4.913	2315.973	ug/L	632.690
206 Pb	0.211307	3.291	2740.763	ug/L	753.366
169 Tm			967160.055	ug/L	905312.737
106 Pd	0.685558	4.698	160.001	ug/L	11.000
83 Kr	186.364644	157.062	784.035	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 16:16:41

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Sample ID: Control BLK

G6K210180

STL Sacramento (916) 373 - 5600

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182 W

113.669 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc 45

Li-1 6 92.065

Be 9

Al 27

Cr 52

Mn 55

Co 59

Ni 60

Cu 65

Zn 68

As 75

Ge-1 72 102.632

Cd 111

Sb 121

Ba 135

In-1 115 111.511

Pb 208

Tm-1 169 106.832

Cr 50

Cr 53

Ni 61

Cu 63

Zn 67

Zn 66

Br 79

Ge 72 102.632

Cd 108

Cd 114

In 115 111.511

207.977 208

Pb 207

Pb 206

Tm 169 106.832

Pd 106

Kr 83

W 182

BJones

Sample ID: JJ57V

Sample Description: G6K210180-1

Batch ID: 6338322

Sample Date/Time: Friday, December 08, 2006 16:18:16

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\JJ57V.020

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 27

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1341678.564	ug/L	1383868.475
6 Li-1			280151.530	ug/L	332005.945
9 Be	0.028850	17.847	7.000	ug/L	0.667
27 Al	132.121143	1.946	897125.763	ug/L	48926.803
52 Cr	2.103768	4.904	50588.519	ug/L	29326.736
55 Mn	5.947708	0.375	100251.368	ug/L	3709.453
59 Co	1.038469	2.561	12622.436	ug/L	75.334
60 Ni	1.020852	0.623	2774.362	ug/L	103.437
65 Cu	4.139303	0.614	12903.934	ug/L	1328.513
68 Zn	6.752490	3.211	9127.426	ug/L	1757.844
75 As	0.708848	9.993	24652.221	ug/L	23329.983
72 Ge-1			1245261.543	ug/L	1276080.893
111 Cd	0.072155	9.054	226.703	ug/L	48.866
121 Sb	0.116805	6.036	1035.395	ug/L	154.001
135 Ba	3.114710	1.990	7383.447	ug/L	135.668
115 In-1			1216132.165	ug/L	1178167.322
208 Pb	0.606406	1.235	20690.191	ug/L	2922.857
169 Tm-1			887560.385	ug/L	905312.737
50 Cr	2.991610	6.615	663.945	ug/L	-92.100
53 Cr	-43.032281	7.311	14912.393	ug/L	36494.330
61 Ni	-5.280363	38.360	2072.021	ug/L	2356.222
63 Cu	4.327280	2.317	9771.256	ug/L	983.155
67 Zn	-0.419410	362.076	1469.347	ug/L	1546.383
66 Zn	6.943206	3.251	4187.805	ug/L	669.405
79 Br	213.787868	3.100	22712.685	ug/L	78439.355
72 Ge			1245261.543	ug/L	1276080.893
108 Cd	0.614452	21.323	103.736	ug/L	-5.948
114 Cd	0.066038	2.844	447.016	ug/L	75.415
115 In			1216132.165	ug/L	1178167.322
208 207.977	0.640839	2.411	10856.066	ug/L	1536.802
207 Pb	0.592163	0.427	4408.777	ug/L	632.690
206 Pb	0.557492	0.381	5425.348	ug/L	753.366
169 Tm			887560.385	ug/L	905312.737
106 Pd	0.989232	3.807	226.003	ug/L	11.000
83 Kr	359.093579	71.810	809.371	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 16:19:55

Page 1

Sample ID: JJ57V

G6K210180

STL Sacramento (916) 373 - 5600

97 of 189

182 W

605.392 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc 45

[> Li-1 6 84.381

[L Be 9

[T Al 27

| Cr 52

| Mn 55

| Co 59

| Ni 60

| Cu 65

| Zn 68

| As 75

[> Ge-1 72 97.585

[T Cd 111

| Sb 121

| Ba 135

[> In-1 115 103.222

[T Pb 208

[> Tm-1 169 98.039

[T Cr 50

| Cr 53

| Ni 61

| Cu 63

| Zn 67

| Zn 66

| Br 79

[> Ge 72 97.585

[T Cd 108

| Cd 114

[> In 115 103.222

[T 207.977 208

| Pb 207

| Pb 206

[> Tm 169 98.039

| Pd 106

| Kr 83

W 182

Sample ID: JJ57VP5

Sample Description: G6K210180-1 5X

Batch ID: 6338322

Sample Date/Time: Friday, December 08, 2006 16:22:05

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\JJ57VP5.021

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 28

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1370676.099	ug/L	1383868.475
6 Li-1			302722.599	ug/L	332005.945
9 Be	0.007214	91.288	2.333	ug/L	0.667
27 Al	27.971088	0.676	234064.381	ug/L	48926.803
52 Cr	1.259050	6.295	42963.264	ug/L	29326.736
55 Mn	1.185916	2.302	23537.951	ug/L	3709.453
59 Co	0.204193	1.747	2613.390	ug/L	75.334
60 Ni	0.352695	3.443	1054.067	ug/L	103.437
65 Cu	0.736278	1.278	3457.262	ug/L	1328.513
68 Zn	1.282777	2.456	3212.590	ug/L	1757.844
75 As	-0.157813	47.883	22985.743	ug/L	23329.983
72 Ge-1			1280834.526	ug/L	1276080.893
111 Cd	0.015113	33.239	85.660	ug/L	48.866
121 Sb	0.065260	13.025	637.023	ug/L	154.001
135 Ba	0.621197	2.309	1555.138	ug/L	135.668
115 In-1			1192977.715	ug/L	1178167.322
208 Pb	0.110928	6.559	6002.802	ug/L	2922.857
169 Tm-1			869953.492	ug/L	905312.737
50 Cr	0.530817	56.483	44.588	ug/L	-92.100
53 Cr	-4.759895	64.562	34280.650	ug/L	36494.330
61 Ni	-6.367144	13.987	2083.361	ug/L	2356.222
63 Cu	0.767071	3.331	2593.743	ug/L	983.155
67 Zn	1.440036	92.507	1691.793	ug/L	1546.383
66 Zn	1.295652	7.953	1349.958	ug/L	669.405
79 Br	27.503358	17.045	71607.906	ug/L	78439.355
72 Ge			1280834.526	ug/L	1276080.893
108 Cd	0.204858	5.493	29.792	ug/L	-5.948
114 Cd	0.024193	31.148	208.689	ug/L	75.415
115 In			1192977.715	ug/L	1178167.322
208 207.977	0.117471	4.750	3155.902	ug/L	1536.802
207 Pb	0.115124	8.533	1329.434	ug/L	632.690
206 Pb	0.096383	12.154	1517.465	ug/L	753.366
169 Tm			869953.492	ug/L	905312.737
106 Pd	0.174839	0.000	49.000	ug/L	11.000
83 Kr	479.549552	45.764	827.039	ug/L	756.700

182 W

120.002 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	91.180
Be	9	
> Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	100.373
Cd	111	
Sb	121	
Ba	135	
> In-1	115	101.257
Pb	208	
> Tm-1	169	96.094
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	100.373
Cd	108	
Cd	114	
> In	115	101.257
207.977	208	
Pb	207	
Pb	206	
> Tm	169	96.094
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JJ57VZ

Sample Description: G6K210180-1 PS

Batch ID: 6338322

Sample Date/Time: Friday, December 08, 2006 16:25:53

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\JJ57VZ.022

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 29

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1334057.322	ug/L	1383868.475	
6 Li-1					289183.083	ug/L	332005.945	
9 Be	195.035884	1.052			45034.610	ug/L	0.667	
27 Al	1105.439210	1.488			7032396.209	ug/L	48926.803	
52 Cr	205.666732	1.157			2139630.828	ug/L	29326.736	
55 Mn	215.448280	0.762			3444493.351	ug/L	3709.453	
59 Co	209.363324	1.190			2487163.513	ug/L	75.334	
60 Ni	212.915938	0.176			548205.532	ug/L	103.437	
65 Cu	214.397993	1.760			592212.970	ug/L	1328.513	
68 Zn	210.279045	0.777			228596.850	ug/L	1757.844	
75 As	199.942224	0.776			545305.834	ug/L	23329.983	
72 Ge-1					1224105.210	ug/L	1276080.893	
111 Cd	197.706567	1.232			471271.017	ug/L	48.866	
121 Sb	46.393534	3.097			339918.970	ug/L	154.001	
135 Ba	205.354358	0.281			466214.883	ug/L	135.668	
115 In-1					1186578.406	ug/L	1178167.322	
208 Pb	205.328473	0.835			6022506.276	ug/L	2922.857	
169 Tm-1					885282.261	ug/L	905312.737	
50 Cr	197.588880	3.669			48854.684	ug/L	-92.100	
53 Cr	158.002775	1.974			109720.180	ug/L	36494.330	
61 Ni	210.954376	4.031			11180.648	ug/L	2356.222	
63 Cu	212.931945	0.864			427220.619	ug/L	983.155	
67 Zn	197.129484	0.898			19700.907	ug/L	1546.383	
66 Zn	207.543433	0.630			104501.253	ug/L	669.405	
79 Br	207.613237	3.360			23868.200	ug/L	78439.355	
72 Ge					1224105.210	ug/L	1276080.893	
108 Cd	195.446527	0.538			33996.238	ug/L	-5.948	
114 Cd	193.892441	0.623			1057819.134	ug/L	75.415	
115 In					1186578.406	ug/L	1178167.322	
208 207.977	215.870727	0.896			3142633.071	ug/L	1536.802	
207 Pb	206.949314	0.829			1321204.758	ug/L	632.690	
206 Pb	185.800800	1.577			1558668.447	ug/L	753.366	
169 Tm					885282.261	ug/L	905312.737	
106 Pd	212.036837	0.368			46095.767	ug/L	11.000	
83 Kr	540.913904	26.230			836.040	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 16:27:32

Page 1

Sample ID: JJ57VZ

182 W

652.735 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	87.102
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	95.927
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	100.714
Pb	208	
[> Tm-1	169	97.787
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	95.927
Cd	108	
Cd	114	
[> In	115	100.714
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	97.787
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JJ57X

Sample Description: G6K210180-2

Batch ID: 6338322

Sample Date/Time: Friday, December 08, 2006 16:29:42

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\JJ57X.023

Tuning File: c:\elandata\Tuning\Default.tun

Optimization File: c:\elandata\Optimize\Default.dac

Autosampler Position: 30

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1339678.892	ug/L	1383868.475
6 Li-1			287874.060	ug/L	332005.945
9 Be	0.003315	202.442	1.333	ug/L	0.667
27 Al	135.842681	1.921	924253.311	ug/L	48926.803
52 Cr	1.999701	4.264	49675.647	ug/L	29326.736
55 Mn	5.266710	1.972	89498.176	ug/L	3709.453
59 Co	0.738270	0.477	9025.653	ug/L	75.334
60 Ni	0.901467	1.322	2470.165	ug/L	103.437
65 Cu	10.061074	1.936	29612.003	ug/L	1328.513
68 Zn	5.766784	0.595	8073.723	ug/L	1757.844
75 As	0.774815	17.536	24913.762	ug/L	23329.983
72 Ge-1			1249565.869	ug/L	1276080.893
111 Cd	0.095073	3.203	278.251	ug/L	48.866
121 Sb	0.511616	13.123	3938.897	ug/L	154.001
135 Ba	3.054004	1.644	7130.571	ug/L	135.668
115 In-1			1197179.740	ug/L	1178167.322
208 Pb	1.148076	0.948	36957.622	ug/L	2922.857
169 Tm-1			896016.516	ug/L	905312.737
50 Cr	2.847514	13.524	629.907	ug/L	-92.100
53 Cr	-42.279749	8.988	15331.548	ug/L	36494.330
61 Ni	-3.092950	82.862	2173.757	ug/L	2356.222
63 Cu	10.419845	1.055	22255.641	ug/L	983.155
67 Zn	-0.180119	765.176	1497.361	ug/L	1546.383
66 Zn	5.783082	2.549	3609.751	ug/L	669.405
79 Br	216.112779	3.097	22208.122	ug/L	78439.355
72 Ge			1249565.869	ug/L	1276080.893
108 Cd	1.400366	3.696	239.718	ug/L	-5.948
114 Cd	0.052893	18.563	367.505	ug/L	75.415
115 In			1197179.740	ug/L	1178167.322
208 207.977	1.210313	1.326	19344.360	ug/L	1536.802
207 Pb	1.145796	0.802	8026.347	ug/L	632.690
206 Pb	1.041809	0.820	9586.916	ug/L	753.366
169 Tm			896016.516	ug/L	905312.737
106 Pd	2.668682	2.033	591.020	ug/L	11.000
83 Kr	86.363753	303.136	769.367	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 16:31:22

Page 1

Sample ID: JJ57X

182 W

301.348 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	86.708
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	97.922
Cd	111	
Sb	121	
Ba	135	
> In-1	115	101.614
Pb	208	
> Tm-1	169	98.973
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	97.922
Cd	108	
Cd	114	
> In	115	101.614
207.977	208	
Pb	207	
Pb	206	
> Tm	169	98.973
Pd	106	
Kr	83	
W	182	

Sample ID: JJ570

Sample Description: G6K210180-3

Batch ID: 6338322

Sample Date/Time: Friday, December 08, 2006 16:33:32

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\JJ570.024

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 31

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1358787.454	ug/L	1383868.475
6 Li-1			291752.243	ug/L	332005.945
9 Be	-0.002515		0.000	ug/L	0.667
27 Al	80.632142	0.909	576420.036	ug/L	48926.803
52 Cr	1.948822	2.922	49862.353	ug/L	29326.736
55 Mn	3.857976	1.330	67502.048	ug/L	3709.453
59 Co	0.638453	1.181	7929.592	ug/L	75.334
60 Ni	0.917157	2.620	2547.952	ug/L	103.437
65 Cu	6.810701	3.219	20766.690	ug/L	1328.513
68 Zn	4.619542	1.048	6909.727	ug/L	1757.844
75 As	0.455078	8.871	24412.823	ug/L	23329.983
72 Ge-1			1267910.155	ug/L	1276080.893
111 Cd	0.099070	8.813	291.593	ug/L	48.866
121 Sb	0.225388	7.552	1844.528	ug/L	154.001
135 Ba	2.600392	1.740	6167.173	ug/L	135.668
115 In-1			1211968.810	ug/L	1178167.322
208 Pb	0.818517	0.550	27020.664	ug/L	2922.857
169 Tm-1			890728.050	ug/L	905312.737
50 Cr	2.124423	12.669	453.915	ug/L	-92.100
53 Cr	-41.884118	8.656	15754.986	ug/L	36494.330
61 Ni	-4.445206	39.388	2146.070	ug/L	2356.222
63 Cu	6.895153	1.078	15273.234	ug/L	983.155
67 Zn	-1.166744	54.265	1424.992	ug/L	1546.383
66 Zn	4.688501	3.367	3095.867	ug/L	669.405
79 Br	216.390276	2.763	22465.574	ug/L	78439.355
72 Ge			1267910.155	ug/L	1276080.893
108 Cd	1.312921	0.325	227.188	ug/L	-5.948
114 Cd	0.045767	9.670	332.458	ug/L	75.415
115 In			1211968.810	ug/L	1178167.322
208 207.977	0.872519	0.989	14286.320	ug/L	1536.802
207 Pb	0.798159	2.694	5747.221	ug/L	632.690
206 Pb	0.740299	1.545	6987.122	ug/L	753.366
169 Tm			890728.050	ug/L	905312.737
106 Pd	2.820526	4.962	624.022	ug/L	11.000
83 Kr	256.819495	57.699	794.369	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 16:35:11

Page 1

Sample ID: JJ570

182 W

136.670 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	87.876
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	99.360
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	102.869
Pb	208	
[> Tm-1	169	98.389
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	99.360
Cd	108	
Cd	114	
[> In	115	102.869
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	98.389
Pd	106	
Kr	83	
W	182	

Sample ID: CCV 3

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 16:37:28

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCV 3.025

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1391684.997	ug/L	1383868.475
6 Li-1			311421.759	ug/L	332005.945
9 Be	99.296519	3.095	24687.121	ug/L	0.667
27 Al	4940.203863	0.876	32743193.014	ug/L	48926.803
52 Cr	101.652795	1.015	1122356.696	ug/L	29326.736
55 Mn	100.718218	0.968	1688176.466	ug/L	3709.453
59 Co	101.799353	0.857	1266406.860	ug/L	75.334
60 Ni	101.675551	1.214	274196.942	ug/L	103.437
65 Cu	100.642727	1.352	291880.641	ug/L	1328.513
68 Zn	98.140944	0.787	112668.489	ug/L	1757.844
75 As	100.561417	0.263	298894.466	ug/L	23329.983
72 Ge-1			1282002.518	ug/L	1276080.893
111 Cd	101.601638	0.537	235957.841	ug/L	48.866
121 Sb	49.976675	1.390	356673.358	ug/L	154.001
135 Ba	98.844131	1.247	218645.430	ug/L	135.668
115 In-1			1155934.918	ug/L	1178167.322
208 Pb	100.683556	0.763	2897077.941	ug/L	2922.857
169 Tm-1			868061.512	ug/L	905312.737
50 Cr	105.095686	6.514	27165.746	ug/L	-92.100
53 Cr	94.735907	3.772	83597.622	ug/L	36494.330
61 Ni	96.491019	3.261	6638.377	ug/L	2356.222
63 Cu	100.309450	0.342	211299.261	ug/L	983.155
67 Zn	98.221737	0.475	11059.874	ug/L	1546.383
66 Zn	99.726021	1.792	52928.826	ug/L	669.405
79 Br	88.276394	4.522	55921.876	ug/L	78439.355
72 Ge			1282002.518	ug/L	1276080.893
108 Cd	102.313722	1.581	17331.454	ug/L	-5.948
114 Cd	101.238598	0.217	538096.122	ug/L	75.415
115 In			1155934.918	ug/L	1178167.322
208 207.977	100.344908	1.515	1433089.570	ug/L	1536.802
207 Pb	100.903028	1.383	631912.510	ug/L	632.690
206 Pb	101.104205	0.862	832075.861	ug/L	753.366
169 Tm			868061.512	ug/L	905312.737
106 Pd	105.007918	1.367	22833.758	ug/L	11.000
83 Kr	459.095078	72.439	824.039	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 16:39:08

Page 1

Sample ID: CCV 3

182 W

85.335 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	93.800
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	100.464
Cd	111	
Sb	121	
Ba	135	
> In-1	115	98.113
Pb	208	
> Tm-1	169	95.885
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	100.464
Cd	108	
Cd	114	
> In	115	98.113
207.977	208	
Pb	207	
Pb	206	
> Tm	169	95.885
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 3

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 16:41:25

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCB 3.026

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1377260.492	ug/L	1383868.475	
6 Li-1					295418.560	ug/L	332005.945	
9 Be	0.003156	79.996			1.333	ug/L	0.667	
27 Al	0.271653	36.960			50627.726	ug/L	48926.803	
52 Cr	0.674882	9.351			36485.929	ug/L	29326.736	
55 Mn	0.017564	31.722			3994.912	ug/L	3709.453	
59 Co	0.004352	19.277			129.001	ug/L	75.334	
60 Ni	-0.001462	141.588			99.341	ug/L	103.437	
65 Cu	-0.215611	1.773			707.690	ug/L	1328.513	
68 Zn	-0.425966	4.509			1276.426	ug/L	1757.844	
75 As	0.514680	31.202			24689.981	ug/L	23329.983	
72 Ge-1					1273851.612	ug/L	1276080.893	
111 Cd	0.003569	190.298			56.306	ug/L	48.866	
121 Sb	0.068447	13.339			641.024	ug/L	154.001	
135 Ba	0.007811	165.369			150.668	ug/L	135.668	
115 In-1					1160118.571	ug/L	1178167.322	
208 Pb	-0.027931	1.906			1972.089	ug/L	2922.857	
169 Tm-1					856063.013	ug/L	905312.737	
50 Cr	-0.172781	43.398			-136.482	ug/L	-92.100	
53 Cr	2.683251	75.204			37750.753	ug/L	36494.330	
61 Ni	-6.744375	15.310			2055.343	ug/L	2356.222	
63 Cu	-0.205321	7.067			553.716	ug/L	983.155	
67 Zn	3.235982	17.905			1854.884	ug/L	1546.383	
66 Zn	-0.547678	8.162			383.024	ug/L	669.405	
79 Br	-20.497178	16.568			83581.522	ug/L	78439.355	
72 Ge					1273851.612	ug/L	1276080.893	
108 Cd	0.088590	14.734			9.199	ug/L	-5.948	
114 Cd	0.012943	69.342			143.851	ug/L	75.415	
115 In					1160118.571	ug/L	1178167.322	
208 Pb	-0.027494	6.775			1066.065	ug/L	1536.802	
207 Pb	-0.030592	9.057			409.676	ug/L	632.690	
206 Pb	-0.026665	8.268			496.347	ug/L	753.366	
169 Tm					856063.013	ug/L	905312.737	
106 Pd	0.007668	150.997			12.667	ug/L	11.000	
83 Kr	595.460955	66.639			844.041	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 16:43:06

Page 1

Sample ID: CCB 3

G6K210180

STL Sacramento (916) 373 - 5600

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182 W

5.667 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	88.980
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	99.825
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.468
Pb	208	
[> Tm-1	169	94.560
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	99.825
Cd	108	
Cd	114	
[> In	115	98.468
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	94.560
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: CCV 4

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 17:24:05

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCV 4.027

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1408273.889	ug/L	1383868.475	
6 Li-1					329865.836	ug/L	332005.945	
9 Be	100.503591	0.856			26470.648	ug/L	0.667	
27 Al	5013.571216	1.930	33531632.261		ug/L	48926.803		
52 Cr	101.383312	2.558			1129538.757	ug/L	29326.736	
55 Mn	100.300045	2.155	1696406.455		ug/L	3709.453		
59 Co	101.037845	2.698	1268166.413		ug/L	75.334		
60 Ni	100.600707	2.106	273775.561		ug/L	103.437		
65 Cu	100.441973	1.122	293946.718		ug/L	1328.513		
68 Zn	99.254677	1.827	114960.602		ug/L	1757.844		
75 As	100.666374	0.656	301918.442		ug/L	23329.983		
72 Ge-1			1293801.442		ug/L	1276080.893		
111 Cd	100.098176	0.817	231883.165		ug/L	48.866		
121 Sb	50.448519	0.559	359191.545		ug/L	154.001		
135 Ba	99.869596	0.920	220386.283		ug/L	135.668		
115 In-1			1153053.739		ug/L	1178167.322		
208 Pb	99.666074	0.805	2882322.670		ug/L	2922.857		
169 Tm-1			872454.895		ug/L	905312.737		
50 Cr	103.199634	4.360	26926.612		ug/L	-92.100		
53 Cr	98.844234	5.538	86372.414		ug/L	36494.330		
61 Ni	95.828462	3.778	6669.777		ug/L	2356.222		
63 Cu	99.931094	1.272	212401.210		ug/L	983.155		
67 Zn	99.787706	1.754	11313.780		ug/L	1546.383		
66 Zn	100.110638	1.718	53619.433		ug/L	669.405		
79 Br	88.399637	8.068	56389.969		ug/L	78439.355		
72 Ge			1293801.442		ug/L	1276080.893		
108 Cd	100.312389	0.378	16952.704		ug/L	-5.948		
114 Cd	99.451679	0.635	527279.954		ug/L	75.415		
115 In			1153053.739		ug/L	1178167.322		
208 207.977	99.885763	0.692	1433843.426		ug/L	1536.802		
207 Pb	100.507440	1.551	632596.904		ug/L	632.690		
206 Pb	98.644575	0.501	815882.340		ug/L	753.366		
169 Tm			872454.895		ug/L	905312.737		
106 Pd	101.992655	1.760	22178.411		ug/L	11.000		
83 Kr	3977.428090	10.841	1340.103		ug/L	756.700		

Report Date/Time: Friday, December 08, 2006 17:25:46

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Sample ID: CCV 4

G6K210180

STL Sacramento (916) 373 - 5600

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182 W

95.001 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	99.355
{ Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	101.389
Cd	111	
Sb	121	
Ba	135	
> In-1	115	97.868
Pb	208	
> Tm-1	169	96.371
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	101.389
Cd	108	
Cd	114	
> In	115	97.868
207.977	208	
Pb	207	
Pb	206	
> Tm	169	96.371
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 4

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 17:28:03

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCB 4.028

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc			1418330.885	ug/L	1383868.475	
6 Li-1			321671.605	ug/L	332005.945	
9 Be	0.001393	283.421	1.000	ug/L	0.667	
27 Al	0.339321	27.762	52483.265	ug/L	48926.803	
52 Cr	1.226517	5.400	43549.786	ug/L	29326.736	
55 Mn	0.014550	10.484	4054.273	ug/L	3709.453	
59 Co	0.004915	15.310	139.668	ug/L	75.334	
60 Ni	0.007193	80.360	126.018	ug/L	103.437	
65 Cu	-0.218002	4.778	720.001	ug/L	1328.513	
68 Zn	-0.399677	13.906	1342.103	ug/L	1757.844	
75 As	-0.088078	466.970	23677.899	ug/L	23329.983	
72 Ge-1			1309166.204	ug/L	1276080.893	
111 Cd	0.005238	52.075	60.828	ug/L	48.866	
121 Sb	0.007371	24.891	206.002	ug/L	154.001	
135 Ba	0.004036	65.803	143.668	ug/L	135.668	
115 In-1			1169283.191	ug/L	1178167.322	
208 Pb	-0.028099	12.593	2030.092	ug/L	2922.857	
169 Tm-1			883324.537	ug/L	905312.737	
50 Cr	-0.271167	43.472	-166.619	ug/L	-92.100	
53 Cr	2.743595	71.592	38831.961	ug/L	36494.330	
61 Ni	-7.840645	14.357	2062.681	ug/L	2356.222	
63 Cu	-0.242009	9.888	490.039	ug/L	983.155	
67 Zn	3.587935	15.365	1941.270	ug/L	1546.383	
66 Zn	-0.533955	3.067	401.026	ug/L	669.405	
79 Br	-9.628635	48.883	83030.651	ug/L	78439.355	
72 Ge			1309166.204	ug/L	1276080.893	
108 Cd	0.053958	92.641	3.383	ug/L	-5.948	
114 Cd	0.000016	62645.943	75.150	ug/L	75.415	
115 In			1169283.191	ug/L	1178167.322	
208 207.977	-0.029532	8.377	1070.732	ug/L	1536.802	
207 Pb	-0.031480	26.561	417.010	ug/L	632.690	
206 Pb	-0.023039	9.044	542.350	ug/L	753.366	
169 Tm			883324.537	ug/L	905312.737	
106 Pd	-0.013803	176.383	8.000	ug/L	11.000	
83 Kr	2943.273297	24.906	1188.414	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 17:29:44

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G6K210180

Sample ID: CCB 4

STL Sacramento (916) 373 - 5600

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182 W

4.333 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	96.887
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	102.593
Cd	111	
Sb	121	
Ba	135	
> In-1	115	99.246
Pb	208	
> Tm-1	169	97.571
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	102.593
Cd	108	
Cd	114	
> In	115	99.246
207.977	208	
Pb	207	
Pb	206	
> Tm	169	97.571
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: JJ571

Sample Description: G6K210180-4

Batch ID: 6338322

Sample Date/Time: Friday, December 08, 2006 17:31:54

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\JJ571.029

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 32

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1395820.425	ug/L	1383868.475
6 Li-1			302348.471	ug/L	332005.945
9 Be	0.001654	256.039	1.000	ug/L	0.667
27 Al	12.901562	5.249	133902.764	ug/L	48926.803
52 Cr	1.923011	11.195	49891.929	ug/L	29326.736
55 Mn	0.566779	4.390	13142.864	ug/L	3709.453
59 Co	0.786763	4.274	9814.838	ug/L	75.334
60 Ni	0.582474	4.491	1666.153	ug/L	103.437
65 Cu	1.379048	3.959	5290.332	ug/L	1328.513
68 Zn	3.028076	4.657	5163.190	ug/L	1757.844
75 As	0.320204	55.800	24204.433	ug/L	23329.983
72 Ge-1			1276294.770	ug/L	1276080.893
111 Cd	0.063423	27.540	199.770	ug/L	48.866
121 Sb	0.046224	7.105	492.347	ug/L	154.001
135 Ba	1.250851	4.736	2967.503	ug/L	135.668
115 In-1			1184385.050	ug/L	1178167.322
208 Pb	0.073922	6.203	5075.241	ug/L	2922.857
169 Tm-1			894612.473	ug/L	905312.737
50 Cr	1.046231	24.961	178.498	ug/L	-92.100
53 Cr	-41.877576	7.503	15844.264	ug/L	36494.330
61 Ni	-4.155303	23.720	2173.423	ug/L	2356.222
63 Cu	1.436663	3.731	3980.534	ug/L	983.155
67 Zn	-2.455132	70.878	1308.610	ug/L	1546.383
66 Zn	3.071175	3.867	2272.160	ug/L	669.405
79 Br	227.281156	2.812	19786.702	ug/L	78439.355
72 Ge			1276294.770	ug/L	1276080.893
108 Cd	1.278853	5.056	216.085	ug/L	-5.948
114 Cd	0.025793	4.663	216.154	ug/L	75.415
115 In			1184385.050	ug/L	1178167.322
208 207.977	0.078391	8.587	2669.074	ug/L	1536.802
207 Pb	0.072691	12.161	1093.402	ug/L	632.690
206 Pb	0.067102	9.132	1312.765	ug/L	753.366
169 Tm			894612.473	ug/L	905312.737
106 Pd	2.404874	2.307	533.683	ug/L	11.000
83 Kr	227.273823	81.664	790.036	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 17:33:34

Page 1

Sample ID: JJ571

G6K210180

STL Sacramento (916) 373 - 5600

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182 W

47.334 ug/L

5.333

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	91.067
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	100.017
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	100.528
Pb	208	
[> Tm-1	169	98.818
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	100.017
Cd	108	
Cd	114	
[> In	115	100.528
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	98.818
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: JJ573

Sample Description: G6K210180-5

Batch ID: 6338322

Sample Date/Time: Friday, December 08, 2006 17:35:44

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\JJ573.030

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 33

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1397815.402	ug/L	1383868.475	
6 Li-1					307402.661	ug/L	332005.945	
9 Be	0.012528	116.481			3.667	ug/L	0.667	
27 Al	226.576192	0.901			1558027.344	ug/L	48926.803	
52 Cr	2.372577	1.076			55306.965	ug/L	29326.736	
55 Mn	11.935482	1.313			204555.772	ug/L	3709.453	
59 Co	1.160490	2.560			14597.504	ug/L	75.334	
60 Ni	1.170137	1.374			3277.887	ug/L	103.437	
65 Cu	33.801528	1.883			99492.291	ug/L	1328.513	
68 Zn	9.169128	2.121			12198.831	ug/L	1757.844	
75 As	0.828640	27.454			25866.994	ug/L	23329.983	
72 Ge-1					1289709.890	ug/L	1276080.893	
111 Cd	0.084792	13.346			251.491	ug/L	48.866	
121 Sb	0.091267	1.397			824.372	ug/L	154.001	
135 Ba	4.247761	1.210			9786.804	ug/L	135.668	
115 In-1					1187719.232	ug/L	1178167.322	
208 Pb	1.038246	2.500			33768.831	ug/L	2922.857	
169 Tm-1					898155.554	ug/L	905312.737	
50 Cr	3.874243	16.814			917.167	ug/L	-92.100	
53 Cr	-39.811570	7.415			17065.111	ug/L	36494.330	
61 Ni	-4.026657	87.308			2200.443	ug/L	2356.222	
63 Cu	34.213131	2.750			73131.195	ug/L	983.155	
67 Zn	3.084548	38.123			1863.557	ug/L	1546.383	
66 Zn	9.172453	1.728			5512.860	ug/L	669.405	
79 Br	219.030337	2.153			22171.377	ug/L	78439.355	
72 Ge					1289709.890	ug/L	1276080.893	
108 Cd	0.620561	15.147			102.146	ug/L	-5.948	
114 Cd	0.070592	11.211			461.397	ug/L	75.415	
115 In					1187719.232	ug/L	1178167.322	
208 207.977	1.107751	3.706			17868.561	ug/L	1536.802	
207 Pb	1.030633	1.194			7298.710	ug/L	632.690	
206 Pb	0.923426	1.840			8601.560	ug/L	753.366	
169 Tm					898155.554	ug/L	905312.737	
106 Pd	1.225425	7.167			277.338	ug/L	11.000	
83 Kr	188.638357	269.521			784.369	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 17:37:24

Page 1

Sample ID: JJ573

G6K210180

STL Sacramento (916) 373 - 5600

117 of 189

182 W

355.354 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	92.590
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	101.068
Cd	111	
Sb	121	
Ba	135	
> In-1	115	100.811
Pb	208	
> Tm-1	169	99.209
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	101.068
Cd	108	
Cd	114	
> In	115	100.811
207.977	208	
Pb	207	
Pb	206	
> Tm	169	99.209
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: CCV 5

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 17:58:59

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCV 5.036

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1423465.087	ug/L	1383868.475	
6 Li-1					338603.205	ug/L	332005.945	
9 Be	102.502209	2.892			27713.846	ug/L	0.667	
27 Al	5216.765046	2.851			34583735.119	ug/L	48926.803	
52 Cr	103.419416	1.791			1141779.301	ug/L	29326.736	
55 Mn	102.306635	2.939			1715304.648	ug/L	3709.453	
59 Co	101.971586	1.891			1269003.758	ug/L	75.334	
60 Ni	101.877164	1.759			274871.779	ug/L	103.437	
65 Cu	102.174853	2.020			296417.196	ug/L	1328.513	
68 Zn	100.967123	2.340			115901.623	ug/L	1757.844	
75 As	102.152534	2.842			303326.682	ug/L	23329.983	
72 Ge-1					1282578.683	ug/L	1276080.893	
111 Cd	102.025356	2.633			229139.050	ug/L	48.866	
121 Sb	51.557278	2.452			355895.936	ug/L	154.001	
135 Ba	101.629734	2.608			217433.141	ug/L	135.668	
115 In-1					1118324.689	ug/L	1178167.322	
208 Pb	102.993900	3.822			2879454.199	ug/L	2922.857	
169 Tm-1					843848.342	ug/L	905312.737	
50 Cr	102.263209	4.508			26438.588	ug/L	-92.100	
53 Cr	100.702317	6.780			86545.792	ug/L	36494.330	
61 Ni	94.968742	4.339			6575.247	ug/L	2356.222	
63 Cu	100.400527	1.117			211558.668	ug/L	983.155	
67 Zn	100.998621	3.381			11331.512	ug/L	1546.383	
66 Zn	101.940604	2.957			54112.255	ug/L	669.405	
79 Br	96.127391	8.208			53896.008	ug/L	78439.355	
72 Ge					1282578.683	ug/L	1276080.893	
108 Cd	101.446032	4.666			16616.040	ug/L	-5.948	
114 Cd	102.591877	3.108			527295.307	ug/L	75.415	
115 In					1118324.689	ug/L	1178167.322	
208 Pb	104.091713	4.226			1444427.559	ug/L	1536.802	
207 Pb	101.248775	2.346			616235.882	ug/L	632.690	
206 Pb	102.416852	4.567			818790.758	ug/L	753.366	
169 Tm					843848.342	ug/L	905312.737	
106 Pd	100.358272	2.191			21823.189	ug/L	11.000	
83 Kr	911.375045	14.475			890.379	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 18:00:40

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Sample ID: CCV 5

G6K210180

STL Sacramento (916) 373 - 5600

119 of 189

182 W

95.668 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	101.987
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	100.509
Cd	111	
Sb	121	
Ba	135	
> In-1	115	94.921
Pb	208	
> Tm-1	169	93.211
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	100.509
Cd	108	
Cd	114	
> In	115	94.921
207.977	208	
Pb	207	
Pb	206	
> Tm	169	93.211
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 5

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 18:02:56

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCB 5.037

Tuning File: c:\elandata\Tuning\Default.tun

Optimization File: c:\elandata\Optimize\Default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1427285.538	ug/L	1383868.475
6 Li-1			337167.758	ug/L	332005.945
9 Be	0.007375	75.811	2.667	ug/L	0.667
27 Al	0.588940	16.786	54135.340	ug/L	48926.803
52 Cr	0.678179	6.977	37499.522	ug/L	29326.736
55 Mn	0.019587	9.912	4137.312	ug/L	3709.453
59 Co	0.006152	42.279	155.335	ug/L	75.334
60 Ni	0.004927	35.579	119.584	ug/L	103.437
65 Cu	-0.237385	5.342	662.533	ug/L	1328.513
68 Zn	-0.409505	21.784	1329.768	ug/L	1757.844
75 As	-0.175334	48.143	23424.229	ug/L	23329.983
72 Ge-1			1308180.268	ug/L	1276080.893
111 Cd	0.008589	40.820	66.776	ug/L	48.866
121 Sb	0.007627	1.867	202.336	ug/L	154.001
135 Ba	0.014179	43.190	162.002	ug/L	135.668
115 In-1			1138044.565	ug/L	1178167.322
208 Pb	-0.027050	1.873	2003.424	ug/L	2922.857
169 Tm-1			858787.905	ug/L	905312.737
50 Cr	-0.142346	39.539	-132.266	ug/L	-92.100
53 Cr	4.003604	72.898	39441.025	ug/L	36494.330
61 Ni	-10.372435	12.142	1947.274	ug/L	2356.222
63 Cu	-0.243661	2.152	486.705	ug/L	983.155
67 Zn	3.058348	22.952	1887.904	ug/L	1546.383
66 Zn	-0.471638	12.746	433.697	ug/L	669.405
79 Br	0.031389	21348.412	80391.752	ug/L	78439.355
72 Ge			1308180.268	ug/L	1276080.893
108 Cd	0.067725	27.844	5.532	ug/L	-5.948
114 Cd	0.012466	99.329	138.315	ug/L	75.415
115 In			1138044.565	ug/L	1178167.322
208 207.977	-0.027992	1.606	1062.731	ug/L	1536.802
207 Pb	-0.030825	2.442	409.343	ug/L	632.690
206 Pb	-0.022542	6.706	531.349	ug/L	753.366
169 Tm			858787.905	ug/L	905312.737
106 Pd	-0.016870	68.635	7.333	ug/L	11.000
83 Kr	331.820313	48.640	805.370	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 18:04:37

Page 1

Sample ID: CCB 5

G6K210180

STL Sacramento (916) 373 - 5600

121 of 189

182 W

3.333 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	101.555
[Be	9	
[Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	102.515
[Cd	111	
Sb	121	
Ba	135	
[> In-1	115	96.594
[Pb	208	
[> Tm-1	169	94.861
[Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	102.515
[Cd	108	
Cd	114	
[> In	115	96.594
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	94.861
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: CCV 6

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 18:06:54

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCV 6.038

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1394449.295	ug/L	1383868.475	
6 Li-1					330225.350	ug/L	332005.945	
9 Be	102.405365	1.748			26999.599	ug/L	0.667	
27 Al	5052.532393	1.861			33716196.788	ug/L	48926.803	
52 Cr	101.239474	2.632			1125538.151	ug/L	29326.736	
55 Mn	100.753506	3.487			1700067.828	ug/L	3709.453	
59 Co	99.567553	1.439			1247085.617	ug/L	75.334	
60 Ni	99.856785	2.472			271114.213	ug/L	103.437	
65 Cu	99.840950	2.832			291492.072	ug/L	1328.513	
68 Zn	99.141385	1.534			114576.281	ug/L	1757.844	
75 As	99.618875	1.778			298309.339	ug/L	23329.983	
72 Ge-1					1290806.214	ug/L	1276080.893	
111 Cd	100.865915	1.101			226244.493	ug/L	48.866	
121 Sb	51.459747	0.390			354752.542	ug/L	154.001	
135 Ba	99.757655	1.287			213151.933	ug/L	135.668	
115 In-1					1116413.473	ug/L	1178167.322	
208 Pb	100.484178	1.024			2800180.555	ug/L	2922.857	
169 Tm-1					840658.971	ug/L	905312.737	
50 Cr	104.939068	7.211			27331.369	ug/L	-92.100	
53 Cr	94.837474	4.728			84185.158	ug/L	36494.330	
61 Ni	89.277733	5.733			6362.139	ug/L	2356.222	
63 Cu	99.468980	1.961			210936.887	ug/L	983.155	
67 Zn	99.193947	3.377			11228.810	ug/L	1546.383	
66 Zn	101.442698	2.774			54198.388	ug/L	669.405	
79 Br	101.386452	3.452			52881.652	ug/L	78439.355	
72 Ge					1290806.214	ug/L	1276080.893	
108 Cd	99.762664	1.298			16324.222	ug/L	-5.948	
114 Cd	100.820032	0.744			517563.515	ug/L	75.415	
115 In					1116413.473	ug/L	1178167.322	
208 207.977	100.534673	1.125			1390612.320	ug/L	1536.802	
207 Pb	99.989232	2.113			606442.860	ug/L	632.690	
206 Pb	100.773199	0.890			803125.376	ug/L	753.366	
169 Tm					840658.971	ug/L	905312.737	
106 Pd	98.459466	0.514			21410.497	ug/L	11.000	
83 Kr	402.275806	53.634			815.705	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 18:08:35

Page 1

Sample ID: CCV 6

G6K210180

STL Sacramento (916) 373 - 5600

123 of 189

182 W

88.335 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	99.464
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	101.154
Cd	111	
Sb	121	
Ba	135	
> In-1	115	94.758
Pb	208	
> Tm-1	169	92.858
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	101.154
Cd	108	
Cd	114	
> In	115	94.758
207.977	208	
Pb	207	
Pb	206	
> Tm	169	92.858
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: CCB 6

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 18:10:51

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCB 6.039

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1426062.390	ug/L	1383868.475	
6 Li-1					324775.123	ug/L	332005.945	
9 Be	0.006479	33.926			2.333	ug/L	0.667	
27 Al	0.762863	21.269			54636.096	ug/L	48926.803	
52 Cr	0.447570	10.076			34548.749	ug/L	29326.736	
55 Mn	0.022027	31.105			4128.641	ug/L	3709.453	
59 Co	0.008955	19.334			188.669	ug/L	75.334	
60 Ni	0.002985	177.296			112.772	ug/L	103.437	
65 Cu	-0.231469	1.613			671.843	ug/L	1328.513	
68 Zn	-0.412092	12.388			1311.098	ug/L	1757.844	
75 As	-0.245456	39.574			22947.510	ug/L	23329.983	
72 Ge-1					1292273.634	ug/L	1276080.893	
111 Cd	0.005457	7.064			59.177	ug/L	48.866	
121 Sb	0.005291	34.163			184.335	ug/L	154.001	
135 Ba	0.003908	51.963			138.334	ug/L	135.668	
115 In-1					1128503.433	ug/L	1178167.322	
208 Pb	-0.025287	4.122			1999.422	ug/L	2922.857	
169 Tm-1					836284.806	ug/L	905312.737	
50 Cr	-0.122990	23.742			-125.398	ug/L	-92.100	
53 Cr	2.930512	90.896			38425.398	ug/L	36494.330	
61 Ni	-9.511175	10.371			1961.282	ug/L	2356.222	
63 Cu	-0.239824	3.276			488.705	ug/L	983.155	
67 Zn	3.537780	33.431			1911.920	ug/L	1546.383	
66 Zn	-0.471685	0.507			428.696	ug/L	669.405	
79 Br	-6.792921	88.823			81216.790	ug/L	78439.355	
72 Ge					1292273.634	ug/L	1276080.893	
108 Cd	0.056823	67.033			3.742	ug/L	-5.948	
114 Cd	0.013585	104.078			142.602	ug/L	75.415	
115 In					1128503.433	ug/L	1178167.322	
208 207.977	-0.027340	2.589			1043.729	ug/L	1536.802	
207 Pb	-0.028241	12.330			414.010	ug/L	632.690	
206 Pb	-0.019477	10.526			541.683	ug/L	753.366	
169 Tm					836284.806	ug/L	905312.737	
106 Pd	-0.006135	156.125			9.667	ug/L	11.000	
83 Kr	-586.364761	26.828			670.692	ug/L	756.700	

182 W

3.333 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	97.822
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	101.269
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	95.785
Pb	208	
[> Tm-1	169	92.375
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	101.269
Cd	108	
Cd	114	
[> In	115	95.785
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	92.375
Pd	106	
Kr	83	
W	182	

Sample ID: LL STD 10X

Sample Description: LL STD 10X

Batch ID:

Sample Date/Time: Friday, December 08, 2006 18:14:48

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\LL STD 10X.040

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 11

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1573255.434	ug/L	1383868.475	
6 Li-1					369588.442	ug/L	332005.945	
9 Be	0.999708	11.441			295.672	ug/L	0.667	
27 Al	55.833731	2.371			454027.302	ug/L	48926.803	
52 Cr	1.482749	4.407			49237.154	ug/L	29326.736	
55 Mn	1.154887	2.340			24987.968	ug/L	3709.453	
59 Co	1.032208	1.866			14006.871	ug/L	75.334	
60 Ni	1.051313	2.325			3186.439	ug/L	103.437	
65 Cu	0.766467	1.942			3846.819	ug/L	1328.513	
68 Zn	4.842970	2.276			7850.187	ug/L	1757.844	
75 As	0.149637	168.144			25859.547	ug/L	23329.983	
72 Ge-1					1390247.819	ug/L	1276080.893	
111 Cd	✓ 0.912758	1.776			2443.000	ug/L	48.866	
121 Sb	0.460589	0.697			3874.858	ug/L	154.001	
135 Ba	0.928804	0.604			2465.014	ug/L	135.668	
115 In-1					1303076.042	ug/L	1178167.322	
208 Pb	1.018364	2.147			34787.222	ug/L	2922.857	
169 Tm-1					941544.179	ug/L	905312.737	
50 Cr	1.562740	11.872			339.351	ug/L	-92.100	
53 Cr	-1.504858	111.855			38948.606	ug/L	36494.330	
61 Ni	-5.186069	52.320			2318.195	ug/L	2356.222	
63 Cu	0.781080	6.288			2847.298	ug/L	983.155	
67 Zn	6.016393	8.724			2316.192	ug/L	1546.383	
66 Zn	4.905324	2.847			3517.312	ug/L	669.405	
79 Br	22.071278	21.940			79250.132	ug/L	78439.355	
72 Ge					1390247.819	ug/L	1276080.893	
108 Cd	0.842951	2.962			154.463	ug/L	-5.948	
114 Cd	0.912197	1.495			5548.008	ug/L	75.415	
115 In					1303076.042	ug/L	1178167.322	
208 Pb	207.977	1.049519	2.593		17836.829	ug/L	1536.802	
207 Pb	0.963778	2.363			7198.962	ug/L	632.690	
206 Pb	1.005840	2.894			9751.431	ug/L	753.366	
169 Tm					941544.179	ug/L	905312.737	
106 Pd	1.007637	10.796			230.003	ug/L	11.000	
83 Kr	745.462950	33.016			866.043	ug/L	756.700	

182 W

3.333 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
{ > Li-1	6	111.320
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	108.947
Cd	111	
Sb	121	
Ba	135	
> In-1	115	110.602
Pb	208	
> Tm-1	169	104.002
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	108.947
Cd	108	
Cd	114	
> In	115	110.602
207.977	208	
Pb	207	
Pb	206	
> Tm	169	104.002
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: LL STD 5X

Sample Description: LL STD 5X

Batch ID:

Sample Date/Time: Friday, December 08, 2006 18:18:08

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\LL STD 5X.041

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 12

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1554591.099	ug/L	1383868.475
6 Li-1			366176.797	ug/L	332005.945
9 Be	1.927532 ✓	1.116	564.352	ug/L	0.667
27 Al	110.573971 ✓	0.740	844972.588	ug/L	48926.803
52 Cr	2.583544 ✓	3.590	61930.452	ug/L	29326.736
55 Mn	2.222378 ✓	1.346	44247.271	ug/L	3709.453
59 Co	2.059896 ✓	1.216	27805.112	ug/L	75.334
60 Ni	2.140896 ✓	0.677	6357.134	ug/L	103.437
65 Cu	1.838824	2.477	7186.798	ug/L	1328.513
68 Zn	10.200481	1.541	14382.813	ug/L	1757.844
75 As	1.077944 ✓	15.780	28553.394	ug/L	23329.983
72 Ge-1			1386971.699	ug/L	1276080.893
111 Cd	1.703945	1.213	4731.293	ug/L	48.866
121 Sb	0.858204	1.866	7413.139	ug/L	154.001
135 Ba	1.724489	1.825	4662.242	ug/L	135.668
115 In-1			1365778.675	ug/L	1178167.322
208 Pb	2.092400	2.301	67458.680	ug/L	2922.857
169 Tm-1			930434.469	ug/L	905312.737
50 Cr	3.193893	11.978	796.188	ug/L	-92.100
53 Cr	-2.856146	99.383	38139.965	ug/L	36494.330
61 Ni	-1.628660	129.230	2482.653	ug/L	2356.222
63 Cu	1.832085	1.926	5224.030	ug/L	983.155
67 Zn	12.535027	10.640	2993.769	ug/L	1546.383
66 Zn	10.678211	1.123	6782.353	ug/L	669.405
79 Br	41.046610	5.414	73745.245	ug/L	78439.355
72 Ge			1386971.699	ug/L	1276080.893
108 Cd	1.651663	1.005	323.854	ug/L	-5.948
114 Cd	1.761793	1.675	11149.982	ug/L	75.415
115 In			1365778.675	ug/L	1178167.322
208 207.977	2.170655	2.484	34765.931	ug/L	1536.802
207 Pb	2.007013	2.682	14106.028	ug/L	632.690
206 Pb	2.021579	1.695	18586.720	ug/L	753.366
169 Tm			930434.469	ug/L	905312.737
106 Pd	2.145668	7.783	477.346	ug/L	11.000
83 Kr	2779.625666	10.886	1164.411	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 18:19:48

Page 1

Sample ID: LL STD 5X

G6K210180

STL Sacramento (916) 373 - 5600

129 of 189

182 W

5.333 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	110.292
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	108.690
Cd	111	
Sb	121	
Ba	135	
> In-1	115	115.924
Pb	208	
> Tm-1	169	102.775
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	108.690
Cd	108	
Cd	114	
> In	115	115.924
207.977	208	
Pb	207	
Pb	206	
> Tm	169	102.775
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: ICSA

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 18:21:28

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\ICSA.042

Tuning File: c:\elandata\Tuning\Default.tun

Optimization File: c:\elandata\Optimize\Default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1141944.662	ug/L	1383868.475
6 Li-1			242609.742	ug/L	332005.945
9 Be	0.039068	19.108	8.000	ug/L	0.667
27 Al	93262.292114	2.712	494815796.235	ug/L	48926.803
52 Cr	2.876976	7.244	48377.402	ug/L	29326.736
55 Mn	5.105541	1.010	71425.132	ug/L	3709.453
59 Co	2.563654	1.144	25618.127	ug/L	75.334
60 Ni	3.110418	1.384	6803.439	ug/L	103.437
65 Cu	0.193801	14.547	1517.114	ug/L	1328.513
68 Zn	2.634033	1.783	3800.826	ug/L	1757.844
75 As	0.388539	81.683	19641.906	ug/L	23329.983
72 Ge-1			1027317.531	ug/L	1276080.893
111 Cd	0.390577	31.346	813.669	ug/L	48.866
121 Sb	0.266169	3.747	1744.841	ug/L	154.001
135 Ba	0.862333	0.791	1736.172	ug/L	135.668
115 In-1			983906.801	ug/L	1178167.322
208 Pb	0.850451	1.393	21056.180	ug/L	2922.857
169 Tm-1			670794.688	ug/L	905312.737
50 Cr	226.184341	3.583	46929.576	ug/L	-92.100
53 Cr	9.504431	11.174	33155.046	ug/L	36494.330
61 Ni	23.287769	8.566	2723.854	ug/L	2356.222
63 Cu	5.377366	2.114	9824.422	ug/L	983.155
67 Zn	27.804307	4.275	3402.520	ug/L	1546.383
66 Zn	8.505539	3.498	4110.369	ug/L	669.405
79 Br	-20236.107544	1.310	4265955.744	ug/L	78439.355
72 Ge			1027317.531	ug/L	1276080.893
108 Cd	70.364245	1.665	10145.985	ug/L	-5.948
114 Cd	4.226717	1.165	19183.502	ug/L	75.415
115 In			983906.801	ug/L	1178167.322
208 207.977	0.897699	2.294	11034.955	ug/L	1536.802
207 Pb	0.846157	0.421	4560.188	ug/L	632.690
206 Pb	0.771728	1.226	5461.037	ug/L	753.366
169 Tm			670794.688	ug/L	905312.737
106 Pd	0.676356	5.136	158.001	ug/L	11.000
83 Kr	6066.252794	9.120	1646.488	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 18:23:08

Page 1

Sample ID: ICSA

G6K210180

STL Sacramento (916) 373 - 5600

131 of 189

182 W

907.132 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	73.074
Be	9	
[> Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	80.506
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	83.512
Pb	208	
[> Tm-1	169	74.095
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	80.506
Cd	108	
Cd	114	
[> In	115	83.512
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	74.095
Pd	106	
Kr	83	
W	182	

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 18:25:23

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\ICSAB.043

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1088428.973	ug/L	1383868.475
6 Li-1			220900.305	ug/L	332005.945
9 Be	94.697280	2.365	16700.600	ug/L	0.667
27 Al	89353.377072	1.848	455125917.620	ug/L	48926.803
52 Cr	108.610883	1.076	921159.902	ug/L	29326.736
55 Mn	106.601377	0.867	1374738.852	ug/L	3709.453
59 Co	104.455119	0.399	999877.238	ug/L	75.334
60 Ni	100.128539	1.291	207776.658	ug/L	103.437
65 Cu	90.038600	0.633	201025.474	ug/L	1328.513
68 Zn	94.138071	0.141	83216.529	ug/L	1757.844
75 As	109.053227	1.340	247856.598	ug/L	23329.983
72 Ge-1			986404.381	ug/L	1276080.893
111 Cd	98.812310	1.022	193810.321	ug/L	48.866
121 Sb	51.661170	1.013	311427.247	ug/L	154.001
135 Ba	104.146372	1.193	194582.110	ug/L	135.668
115 In-1			976314.224	ug/L	1178167.322
208 Pb	102.794195	0.110	2222733.394	ug/L	2922.857
169 Tm-1			652309.793	ug/L	905312.737
50 Cr	310.499226	16.904	61861.446	ug/L	-92.100
53 Cr	108.725588	3.646	69640.511	ug/L	36494.330
61 Ni	120.426209	1.325	5924.612	ug/L	2356.222
63 Cu	96.728444	1.293	156785.720	ug/L	983.155
67 Zn	120.259199	2.405	10152.475	ug/L	1546.383
66 Zn	103.117846	0.694	42099.011	ug/L	669.405
79 Br	-171.842566	15.446	94938.843	ug/L	78439.355
72 Ge			986404.381	ug/L	1276080.893
108 Cd	167.252044	1.983	23933.122	ug/L	-5.948
114 Cd	101.571996	1.237	455946.192	ug/L	75.415
115 In			976314.224	ug/L	1178167.322
208 207.977	105.105581	0.672	1128069.595	ug/L	1536.802
207 Pb	100.119294	1.108	471195.679	ug/L	632.690
206 Pb	100.818749	0.358	623468.120	ug/L	753.366
169 Tm			652309.793	ug/L	905312.737
106 Pd	85.805349	0.650	18660.210	ug/L	11.000
83 Kr	10937.432085	8.392	2360.986	ug/L	756.700

Report Date/Time: Friday, December 08, 2006 18:27:02

Page 1

Sample ID: ICSAB

182 W

917.468 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	66.535
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	77.300
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	82.867
Pb	208	
[> Tm-1	169	72.054
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
[> Ge	72	77.300
Cd	108	
Cd	114	
[> In	115	82.867
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	72.054
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 7

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 18:48:44

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCV 7.049

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1305287.446	ug/L	1383868.475	
6 Li-1					271159.828	ug/L	332005.945	
9 Be	100.154171	1.257			21680.830	ug/L	0.667	
27 Al	4644.559701	0.951			29453351.580	ug/L	48926.803	
52 Cr	99.656149	1.394			1053150.937	ug/L	29326.736	
55 Mn	98.172557	1.241			1574479.494	ug/L	3709.453	
59 Co	99.868847	1.587			1188523.005	ug/L	75.334	
60 Ni	101.080301	1.570			260789.176	ug/L	103.437	
65 Cu	99.159162	0.704			275111.122	ug/L	1328.513	
68 Zn	98.008080	1.392			107639.746	ug/L	1757.844	
75 As	101.871006	0.747			289347.148	ug/L	23329.983	
72 Ge-1					1226366.472	ug/L	1276080.893	
111 Cd	100.787794	0.855			232978.076	ug/L	48.866	
121 Sb	50.310509	0.827			357427.539	ug/L	154.001	
135 Ba	97.971390	1.259			215728.086	ug/L	135.668	
115 In-1					1150539.345	ug/L	1178167.322	
208 Pb	100.291350	0.962			2764921.403	ug/L	2922.857	
169 Tm-1					831666.885	ug/L	905312.737	
50 Cr	101.105455	3.886			25009.614	ug/L	-92.100	
53 Cr	91.689804	1.662			78501.820	ug/L	36494.330	
61 Ni	95.890486	2.681			6326.733	ug/L	2356.222	
63 Cu	99.120412	0.500			199732.081	ug/L	983.155	
67 Zn	96.994644	2.265			10467.174	ug/L	1546.383	
66 Zn	97.622484	1.017			49588.749	ug/L	669.405	
79 Br	71.814052	3.609			57580.018	ug/L	78439.355	
72 Ge					1226366.472	ug/L	1276080.893	
108 Cd	101.242619	1.058			17072.522	ug/L	-5.948	
114 Cd	100.537849	1.138			531903.179	ug/L	75.415	
115 In					1150539.345	ug/L	1178167.322	
208 207.977	100.293874	1.208			1372449.425	ug/L	1536.802	
207 Pb	101.415577	1.100			608521.534	ug/L	632.690	
206 Pb	99.431450	0.738			783950.444	ug/L	753.366	
169 Tm					831666.885	ug/L	905312.737	
106 Pd	103.045872	0.045			22407.321	ug/L	11.000	
83 Kr	43.181419	390.935			763.033	ug/L	756.700	

Report Date/Time: Friday, December 08, 2006 18:50:24

Page 1

Sample ID: CCV 7

G6K210180

STL Sacramento (916) 373 - 5600

135 of 189

182 W

96.335 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	81.673
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	96.104
Cd	111	
Sb	121	
Ba	135	
> In-1	115	97.655
Pb	208	
> Tm-1	169	91.865
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	96.104
Cd	108	
Cd	114	
> In	115	97.655
207.977	208	
Pb	207	
Pb	206	
> Tm	169	91.865
Pd	106	
Kr	83	
W	182	

Sample ID: CCB 7

Sample Description:

Batch ID:

Sample Date/Time: Friday, December 08, 2006 18:52:41

Method File: C:\elandata\Method\6338322.mth

Dataset File: c:\elandata\dataset\061208b1\CCB 7.050

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1347013.686	ug/L	1383868.475	
6 Li-1					267106.774	ug/L	332005.945	
9 Be	0.011579	41.790			3.000	ug/L	0.667	
27 Al	0.227142	56.332			48678.709	ug/L	48926.803	
52 Cr	0.527799	13.240			33769.064	ug/L	29326.736	
55 Mn	0.022652	19.652			3945.223	ug/L	3709.453	
59 Co	0.008949	16.509			179.669	ug/L	75.334	
60 Ni	0.009884	34.280			125.433	ug/L	103.437	
65 Cu	-0.242106	2.855			611.006	ug/L	1328.513	
68 Zn	-0.385552	14.886			1278.427	ug/L	1757.844	
75 As	0.667991	69.682			24283.095	ug/L	23329.983	
72 Ge-1					1232018.254	ug/L	1276080.893	
111 Cd	0.008723	64.666			68.790	ug/L	48.866	
121 Sb	0.073638	11.948			682.360	ug/L	154.001	
135 Ba	0.017790	47.172			174.002	ug/L	135.668	
115 In-1					1166914.216	ug/L	1178167.322	
208 Pb	-0.021161	15.749			2111.099	ug/L	2922.857	
169 Tm-1					835496.930	ug/L	905312.737	
50 Cr	-0.097835	68.784			-113.296	ug/L	-92.100	
53 Cr	2.403523	76.885			36382.028	ug/L	36494.330	
61 Ni	-4.954566	12.414			2064.015	ug/L	2356.222	
63 Cu	-0.237924	7.681			469.702	ug/L	983.155	
67 Zn	2.854413	36.940			1758.829	ug/L	1546.383	
66 Zn	-0.523843	10.492			382.357	ug/L	669.405	
79 Br	-28.962024	7.946			82947.330	ug/L	78439.355	
72 Ge					1232018.254	ug/L	1276080.893	
108 Cd	0.062618	19.138			4.804	ug/L	-5.948	
114 Cd	0.017027	63.749			165.597	ug/L	75.415	
115 In					1166914.216	ug/L	1178167.322	
208 207.977	-0.022545	23.931			1108.070	ug/L	1536.802	
207 Pb	-0.020312	18.146			461.346	ug/L	632.690	
206 Pb	-0.019406	3.732			541.683	ug/L	753.366	
169 Tm					835496.930	ug/L	905312.737	
106 Pd	0.004601	264.575			12.000	ug/L	11.000	
83 Kr	-338.638127	15.201			707.029	ug/L	756.700	

182 W

4.000 ug/L

5.333

Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	80.452
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	96.547
Cd	111	
Sb	121	
Ba	135	
> In-1	115	99.045
Pb	208	
> Tm-1	169	92.288
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Br	79	
> Ge	72	96.547
Cd	108	
Cd	114	
> In	115	99.045
207.977	208	
Pb	207	
Pb	206	
> Tm	169	92.288
Pd	106	
Kr	83	
W	182	

Sample Preparation Log

STL SACRAMENTO
Metals - Air Toxics - Preparation Log

Date: 5-Dec-06

Analyst: Phomsophat *12/05/06*
Loera M

Matrix: AIR

Fraction: Filter

SOP:

Method: ICPMS

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G6L040000	322	JKQP3B	2A	NA	NA	NA	100	6338322	1.2
G6L040000	322	JKQP3C	2A	NA	NA	NA	100	6338322	1.2
G6L040000	322	JKQP3L	2A	NA	NA	NA	100	6338322	1.2
G6K210180	1	JJ57V	2A	9	0.75	0.75	100	6338322	1.2
G6K210180	2	JJ57X	2A	9	0.75	0.75	100	6338322	1.2
G6K210180	3	JJ570	2A	9	0.75	0.75	100	6338322	1.2
G6K210180	4	JJ571	2A	9	0.75	0.75	100	6338322	1.2
G6K210180	5	JJ573	2A	9	0.75	0.75	100	6338322	1.2
G6K220186	1	JJ8VM	2A	9	0.75	0.75	100	6338322	1.2
G6K220186	2	JJ8VQ	2A	9	0.75	0.75	100	6338322	1.2
G6K220186	3	JJ8VR	2A	9	0.75	0.75	100	6338322	1.2
G6K220186	4	JJ8VT	2A	9	0.75	0.75	100	6338322	1.2
G6K220186	5	JJ8VV	2A	9	0.75	0.75	100	6338322	1.2

For 1" filter: factor = 9 (9/1)
For 0.75" filter factor = 12 (9/0.75)

Page 1 of 1
QA-372B mlt 02/20/03

STL Sacramento
Metals Preparation Spiking
Documentation Form

SEVERN
TRENT

STL

Lot # G6K210180-(1-5); G6K220186-(1-5)

Batch Number: 6338322

EPA Analytical
Method ID: 6020

Spiked Date: 12/05/06

MS Run #: _____

EPA Prep
Method ID: 2A

Hot Plate
Microwave ID: B

Analyst Initial/Date: mc/12/05/06

Witness Initial/Date:

mc 12 -5 -06

Hot Plate Temp

Observed: 70°

Corrected: _____

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/DCS Volume Spiked	MS/SD Volume Spiked	Expiration Date
		Ca, Mg Al, As, Ba, Se, Sn, Tl Fe, Mo, Ti Sb, Co, Pb, Mn, Ni, V, Zn Cu Cr , Be, Cd Ag	5,000 200 100 50 25 20 5 5.6				
	ICP Part 1 5% HNO ₃	K, Na	5,000				
	ICP Part 2 2% HNO ₃	P, S	1,000				
		B, Li, Sr	100				
	Si H2O/Tri HF	Si	1,000				
✓	XCAL-45 5% HNO ₃	Al, K, Mg, Ca, Na, Fe, P, B, Si As, Be, Cd, Cr, Co, Cu, Pb, Mn, Mo, Ni, Se, U, V, Zn, Ba, Li, Sn, Sr, Ti Sb, Ag, Tl	50 10 2.5	1774-17st 8-12	2.0ml	✓	10/07
	Misc. Elements						<u>12/05/06 ml</u>

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
✓	70% HNO ₃	Mallinckrodt	C 37055		30% H ₂ O ₂	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	

ICP matrix spike and LCS: For final volumes of 100ml, add 1ml from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.

ICPMS matrix spike and LCS: For final volumes of 100ml, add 2ml of XCAL-45.

Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

STL SACRAMENTO
Metals - Air Toxics - Preparation Log

Date: 5-Dec-06

Analyst: Phomsophat *12/05/06*
Loera M *ml*

Matrix: AIR

Fraction: Filter

SOP:

Method: ICPMS

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G6L040000	322	JKQP3B	2A	NA	NA	NA	100	6338322	1.2
G6L040000	322	JKQP3C	2A	NA	NA	NA	100	6338322	1.2
G6L040000	322	JKQP3L	2A	NA	NA	NA	100	6338322	1.2
G6K210180	1	JJ57V	2A	9	0.75	0.75	100	6338322	1.2
G6K210180	2	JJ57X	2A	9	0.75	0.75	100	6338322	1.2
G6K210180	3	JJ570	2A	9	0.75	0.75	100	6338322	1.2
G6K210180	4	JJ571	2A	9	0.75	0.75	100	6338322	1.2
G6K210180	5	JJ573	2A	9	0.75	0.75	100	6338322	1.2
G6K220186	1	JJ8VM	2A	9	0.75	0.75	100	6338322	1.2
G6K220186	2	JJ8VQ	2A	9	0.75	0.75	100	6338322	1.2
G6K220186	3	JJ8VR	2A	9	0.75	0.75	100	6338322	1.2
G6K220186	4	JJ8VT	2A	9	0.75	0.75	100	6338322	1.2
G6K220186	5	JJ8VV	2A	9	0.75	0.75	100	6338322	1.2

For 1" filter: factor = 9 (9/1)
For 0.75" filter factor = 12 (9/0.75)

Page 1 of 1
QA-372B mlt 02/20/03

STL Sacramento
Metals Preparation Spiking
Documentation Form

SEVERN
TRENT

STL

Lot # 56K210180-(5); G6K220186-(1-5)

Batch Number: 6338322

EPA Analytical Method ID: 6020

Spiked Date: 12/05/06

MS Run #: 12/06/06 ML

EPA Prep Method ID: 2A

Hot Plate Microwave ID: B

Analyst Initial/Date: mc/12/05/06

Witness Initial/Date: mc 12 -5 -06 Hot Plate Temp 70°
Corrected: 12/06/06 m

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/DCS Volume Spiked	MS/SD Volume Spiked	Expiration Date
		Ca, Mg Al, As, Ba, Se, Sn, Tl	5,000 200				
	ICP Part 1 5% HNO ₃	Fe,Mo,Ti Sb,Co,Pb,Mn,Ni,V,Zn Cu Cr ,Be,Cd Ag	100 50 25 20 5 5.6				
	ICP Part 2 2% HNO ₃	K,Na P,S B,Li,Sr	5,000 1,000 100				
	Si H2O/Tri HF	Si	1,000				
✓	XCAL-45 5% HNO ₃	Al,K,Mg,Ca,Na,Fe,P,B, Si As,Be,Cd,Cr,Co,Cu,Pb, Mn,Mo,Ni,Se,U,V,Zn,Ba, Li Sn,Sr,Ti Sb,Ag,Tl	50 10 2.5	1774-mat 8-12	2.0ml	✓	10/07
	Misc. Elements						<u>12/05/06 ml</u>

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
✓	70% HNO ₃	Mallinckrodt	C 37055		30% H ₂ O ₂	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	

ICP matrix spike and LCS: For final volumes of 100ml, add 1ml from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.

ICPMS matrix spike and LCS: For final volumes of 100ml, add 2ml of XCAL-45.

Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

AIR, 9056, Sulfate

General Anions by IC

*Fluoride
Chloride
Nitrite
Bromide
Nitrate
Phosphate
Sulfate*

STL Sacramento

LEVEL 1&2 REVIEW CHECKLIST GENERAL CHEMISTRY

LAB NUMBERS: G6L010119, G6K210180 and G6K220186

ANALYSIS: 3000 DATE: 12/06/06 ANALYST: OS

LEVEL 1 RUN REVIEW:

1. Samples are properly preserved and verified
2. Run set-up meets standard criteria (Curve, ICV, ICB, REF...CCV,CCB..)
3. Calibration criteria met
4. Calibration verifications and second source reference are in control
5. Batch QC are in control (Blank, LCS, MSQC, LCS dup when necessary)
6. Calculations have been checked
7. QAS +/or QAPP was consulted and followed for client specifics
8. Standard Tracking # noted on benchsheet +/or runlog
9. Manual integration performed, documented and approved

YES	NO	NA
✓		✓
✓		
✓		
✓		
✓		
✓		
✓		
✓		
✓		

LEVEL 1 DATA REVIEW:

1. Benchsheet complete
2. QAS +/or QAPP consulted and followed for client specifics for data entry
3. Data entered properly
4. Copy of prep sheet and prep checklist attached to run
5. Analyst observations, HTV's, Anomalies properly documented and attached to run.

✓		
✓		
✓		
		✓

Completed By & Date: OS 12/06/06

LEVEL 2 REVIEW:

1. Level 1 checklist complete and verified
2. Deviations, Anomalies, Holding times checked and approved
3. Reprep/Reanalysis documented and chemist notified
4. Client specific criteria met
5. Data entry checked and released in Quantims
6. Indication on benchsheet on review and release (dated & signed)
7. Manual integration reviewed, approved, and properly documented

✓		
		✓
✓		
✓		
✓		
✓		
✓		

Completed By & Date: Linda O'Brien
12/16/06

Comments: _____

QA-159 NEK 7/00

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEETRun Date: 12/06/06
Time: 13:18:49

STL Sacramento

PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>RE-RUN QC</u>	<u>RE-RUN MATRIX</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: GA Chloride (9056, Ion Chromatography)

QC BATCH #: 6340336 INITIALS: DATA ENTRY:

PREP DATE: 12/06/06 9:21 PREP _____ INITIALS _____

COMP DATE: 12/06/06 9:21 ANAL _____ DATE _____

USER: OUNIS

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JKMDA-1-AC	G-6L010149-001	XX I 88 GA 9G	M	_____	AAFBMBG39L045
JKMDA-1-AF	G-6L010149-001-D	XX I 88 GA 9G	M	_____	AAFBMBG39L045
JKMDA-1-AE	G-6L010149-001-S	XX I 88 GA 9G	M	_____	AAFBMBG39L045
JKMDV-1-AC	G-6L010149-002	XX I 88 GA 9G	M	_____	AAFBMBG96L046
JKMD3-1-AC	G-6L010149-003	XX I 88 GA 9G	M	_____	AAFBMBG42L047
JKMEC-1-AC	G-6L010149-005	XX I 88 GA 9G	M	_____	AAFBGWEB01
JKW4W-1-AA	G-6L060000-336-B	XX I 88 GA 9G	_____	_____	INTRA-LAB BLANK
JKW4W-1-AC	G-6L060000-336-C	XX I 88 GA 9G	_____	_____	INTRA-LAB CHECK

Control Limits

(85-115)

(85-115)

(85-115)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch 6340336

Date 12/08/2006
Time 9:57:21

Method Code: GA Chloride (9056, Ion Chromatography)

Analyst: Sonia Ouni.

Work Order	Result	Units	Dil/L	Dil/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
		mg/L			12/06/06	.00	N		78.4	1.0	1.00
JKMDA-1-AC	78.408										
JKMDV-1-AC	78.246	mg/L	1		12/06/06		.00	N	78.2	1.0	1.00
JKMD3-1-AC	190.12 Q	mg/L	5		12/06/06		.00	N	190 Q	5.0	5.00
JKMEC-1-AC	ND	mg/L	1		12/06/06		.00	N	ND	1.0	1.00
JKW4W-1-AA	ND	mg/L	1.0		12/06/06		.00		ND	1.0	1.00

Notes:
Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

Notes:

Check Standard	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits (85-115)	Dil. 1.00
		75	77.017	102.68	12/06/06		

Notes:

MS - MSD	Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	SPIKE Pct.	Recovered DUP	Recovered RPD	Prep. - Anal.	Dil. 1.00
	JKW4W-1-AA		78.408	10	87.448	87.484	90.40	90.76	.04	12/06/06	

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION TOTALS	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	0	.0

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEETRun Date: 12/06/06
Time: 13:14:36

STL Sacramento

PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: GK Sulfate (9056, Ion Chromatography)

QC BATCH #: 6340337

INITIALS: _____

DATA ENTRY: _____

PREP DATE: 12/06/06 9:00

PREP _____

INITIALS _____

COMP DATE: 12/06/06 10:00

ANAL _____

DATE _____

USER: OUNIS

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JJ57V-1-AL	G-6K210180-001	XX S 82 GK YM	Y-D	_____	P-0800
JJ57X-1-AL	G-6K210180-002	XX S 82 GK YM	Y-D	_____	P-0801
JJ570-1-AL	G-6K210180-003	XX S 82 GK YM	Y-D	_____	P-0802
JJ571-1-AL	G-6K210180-004	XX S 82 GK YM	Y-D	_____	P-0803
JJ573-1-AL	G-6K210180-005	XX S 82 GK YM	Y-D	_____	000576
JJ8VM-1-AL	G-6K220186-001	XX S 82 GK YM	Y-D	_____	P-0804
JJ8VQ-1-AL	G-6K220186-002	XX S 82 GK YM	Y-D	_____	P-0805
JJ8VR-1-AL	G-6K220186-003	XX S 82 GK YM	Y-D	_____	P-0806
JJ8VT-1-AL	G-6K220186-004	XX S 82 GK YM	Y-D	_____	P-0807
JJ8VV-1-AL	G-6K220186-005	XX S 82 GK YM	Y-D	_____	000578
JKW4K-1-AA	G-6L060000-337-B	XX S 82 GK YM	_____	_____	INTRA-LAB BLANK
JKW4K-1-AC	G-6L060000-337-C	XX S 82 GK YM	_____	_____	INTRA-LAB CHECK
JKW4K-1-AD	G-6L060000-337-L	XX S 82 GK YM	_____	_____	INTRA-LAB CHECK

Control Limits

(85-115)

(85-115)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch
6340337

Date 12/08/2006
Time 10:12:49

Method Code: GK Sulfate (9056, Ion Chromatography)

Analyst: Sonia Ouni

Work Order	Order	Result	Units	LDL/Dil	Prep 12/06/06	Anal. -	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil. 12.00
JJ57V-1-AA		8.376	mg	0.48	12/06/06		.00	N		7.2 J	0.48	12.00
JJ57X-1-AA	7.223	mg	0.48		12/06/06		.00	N		3.2 J	0.48	12.00
JJ570-1-AA	3.198	mg	0.48		12/06/06		.00	N		0.090 B,J	0.48	12.00
JJ571-1-AA	0.090	mg	0.48		12/06/06		.00	N		7.8 J	0.48	12.00
JJ573-1-AA	7.792	mg	0.48		12/06/06		.00	N		0.42 B,J	0.48	12.00
JJ8VM-1-AA	0.425	mg	0.48		12/06/06		.00	N		0.47 B,J	0.48	12.00
JJ8VQ-1-AA	0.469	mg	0.48		12/06/06		.00	N		0.49 J	0.48	12.00
JJ8VR-1-AA	0.491	mg	0.48		12/06/06		.00	N		0.61 J	0.48	12.00
JJ8VT-1-AA	0.612	mg	0.48		12/06/06		.00	N		1.2 J	0.48	12.00
JJ8VV-1-AA	1.228	mg	0.48		12/06/06		.00	N		0.19 B	0.48	12.00
JKW4K-1-AA	0.193	mg	0.48		12/06/06		.00					

Notes:
 J Method blank contamination. The associated method blank contains the target analyte at a reportable level.
 B Estimated result. Result is less than RL.

LCS - LCSD Exception Work Order Code JJW4K-TAC
 Measured True Sample Measured SPIKE Measured SPIKE Pct. Recovered RPD
Exception Code Order Sample Spike DUP DUP 99.97 .94 Prep Anal. Dil. 1.00
JJW4K-TAC 4.800 4.8442 4.7986 100.92

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION QC #	TOTALS MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

Sulfate in Filters

Lot:	G6K210180 and G6K220186		Analysis Date:	12/06/06	
Default RL =	0.040		mg/Filter		
Sample ID	Work Order	Dilution for Fraction of Filter Analyzed*	Instrument	Adjusted Dilution Factor	Sulfate (mg/L)
G6K210180-1	JJ57V	12		12	17.449
G6K210180-2	JJ57X	12		12	15.048
G6K210180-3	JJ570	12		12	6.662
G6K210180-4	JJ571	12		12	0.188
G6K210180-5	JJ573	12		12	16.234
G6K220186-1	JJ8VM	12		12	0.886
G6K220186-2	JJ8VQ	12		12	0.977
G6K220186-3	JJ8VR	12		12	1.022
G6K220186-4	JJ8VT	12		12	1.275
G6K220186-5	JJ8VV	12		12	2.559
MB		12		12	0.401
LCS		12		12	10.092
DSC		12		12	9.997
* Dilution for Fraction of Filter Analyzed ----->			If entire Filter is used, enter 1		
If only a portion of Filter is used, enter "Dilution" based on the fraction used			(i.e. if 1/12 of filter is used for analysis, enter 12; if half of filter is used, enter 2, etc)		
LCS True Value =	4.800	mg/Filter			
MS/SD True Value =					
Analyst:	<i>CS</i>		Date Entered:	<i>12/08/06</i>	Reviewed By:

12/06/06
12/29/06

IIC6
Method 300.0

Sequence: 061206A
Operator: ounis

Event: 2867-WC-41-7

Page 1 of 3
Printed: 12/8/2006 10:17:35 AM

Title: AS14A 013004

Datasource: D4N34341_local

Location: ICS1000\SEQUENCES\2006\DECEMBER 2006

Timebase: ICS1000

#Samples: 33

spike: 2628-WC-34-S:CL

Sonia Tun
12/06/06

Created:

12/6/2006 8:50:51 AM by ounis
(Modified, not saved)

No.	Name	Dil. Factor	Type	F [ppm] Fluoride	Cl [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate	SO4 [ppm] Sulfate
1	1R	1.0000	Standard	0.522	0.990	n.a.	0.482	0.049	0.201	1.007
2	2R	1.0000	Standard	2.314	4.744	0.495	2.527	0.506	2.438	4.987
3	3R	1.0000	Standard	4.943	9.678	1.003	4.995	0.993	4.944	9.960
4	4R	1.0000	Standard	10.081	20.010	1.990	10.100	2.018	10.127	20.131
5	5R	1.0000	Standard	25.258	50.852	5.021	24.842	4.976	25.004	49.882
6	6R	1.0000	Standard	49.879	99.682	9.992	50.054	10.008	49.985	100.034
7	BLANK	1.0000	Unknown	n.a.	n.a.	1.117	n.a.	n.a.	n.a.	n.a.
8	ICV	1.0000	Unknown	31.170	77.017	n.a.	30.332	7.550	30.170	76.080
9	ICB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
10	JKMDA 1X G6L010149-1 CL	1.0000	Unknown	n.a.	78.408	n.a.	0.359	2.590	n.a.	15.718
11	JKMDV 1X G6L010149-2	1.0000	Unknown	n.a.	78.246	n.a.	0.347	2.612	n.a.	15.868
12	JKMD3 5X G6L010149-3	5.0000	Unknown	n.a.	190.119	n.a.	n.a.	2.483	n.a.	29.709
13	JKMEC 1X G6L010149-5	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
14	JKMDA S 1X G6L010149-1	1.0000	Unknown	n.a.	87.448	n.a.	0.369	2.598	n.a.	15.531
15	JKMDA D 1X G6L010149-1	1.0000	Unknown	n.a.	87.484	n.a.	0.348	2.580	n.a.	15.452
16	JJ57V 1X G6K210180-1	1.0000	Unknown	n.a.	0.437	n.a.	n.a.	0.095	0.389	17.449
17	JJ57X 1X G6K210180-2	1.0000	Unknown	0.092	0.366	n.a.	n.a.	0.086	0.590	15.048
18	JJ570 1X G6K210180-3	1.0000	Unknown	n.a.	0.625	n.a.	n.a.	0.090	0.622	6.662
19	JJ571 1X G6K210180-4	1.0000	Unknown	0.107	n.a.	n.a.	n.a.	n.a.	0.541	0.188
20	CCV	1.0000	Unknown	24.818	50.261	4.992	24.734	4.946	24.845	49.783
21	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
22	JJ573 1X G6K210180-5	1.0000	Unknown	0.095	0.835	n.a.	n.a.	0.122	0.605	16.234
23	JJ8VM 1X G6K220186-1	1.0000	Unknown	0.109	0.182	n.a.	n.a.	0.226	0.623	0.886
24	JJ8VQ 1X G6K220186-2	1.0000	Unknown	0.100	0.301	n.a.	n.a.	0.403	0.682	0.977
25	JJ8VR 1X G6K220186-3	1.0000	Unknown	0.133	1.523	n.a.	n.a.	0.421	0.539	1.022
26	JJ8VT 1X G6K220186-4	1.0000	Unknown	0.109	0.184	n.a.	n.a.	0.307	0.570	1.275
27	JJ8VV 1X G6K220186-5	1.0000	Unknown	0.206	1.174	n.a.	n.a.	0.631	0.716	2.559
28	MB	1.0000	Unknown	n.a.	0.180	n.a.	n.a.	0.054	0.293	0.401
29	LCS	1.0000	Unknown	4.837	9.544	1.003	4.960	1.032	5.165	10.092
30	DCS	1.0000	Unknown	4.719	9.352	0.993	4.924	1.010	5.109	9.997
31	CCV	1.0000	Unknown	24.499	49.850	4.968	24.617	4.935	24.654	49.474
32	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
33	SHUTDOWN	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum			183.992	909.493	31.573	183.990	53.322	188.810	536.406

method 300.0, reporting Cl and SO4

Title: AS14A 013004

Datasource: D4N34341_local
 Location: ICS1000\SEQUENCES\2006\DECEMBER 2006
 Timebase: ICS1000
 #Samples: 33

Created: 12/6/2006 8:50:51 AM by ounis
 (Modified, not saved)

No.	Name	Status	Program	Method
1	1R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
2	2R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
3	3R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
4	4R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
5	5R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
6	6R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
7	BLANK	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
8	ICV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
9	ICB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
10	JKMDA 1X G6L010149-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
11	JKMDV 1X G6L010149-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
12	JKMD3 5X G6L010149-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
13	JKMEC 1X G6L010149-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
14	JKMDA S 1X G6L010149-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
15	JKMDA D 1X G6L010149-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
16	JJ57V 1X G6K210180-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
17	JJ57X 1X G6K210180-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
18	JJ570 1X G6K210180-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
19	JJ571 1X G6K210180-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
20	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
21	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
22	JJ573 1X G6K210180-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
23	JJ8VM 1X G6K220186-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
24	JJ8VQ 1X G6K220186-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
25	JJ8VR 1X G6K220186-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
26	JJ8VT 1X G6K220186-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
27	JJ8VV 1X G6K220186-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
28	MB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
29	LCS	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
30	DCS	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
31	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
32	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
33	SHUTDOWN	Finished	ICS1000 SHUTDOWN PROGRAM	AS14A METHODHIGH 8PTCURVE
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Sequence: 061206A
Operator: ounis

Page 3 of 3
Printed: 12/8/2006 10:17:35 AM

Title: AS14A 013004

Datasource: D4N34341_local

Location: ICS1000\SEQUENCES\2006\DECEMBER 2006

Timebase: ICS1000

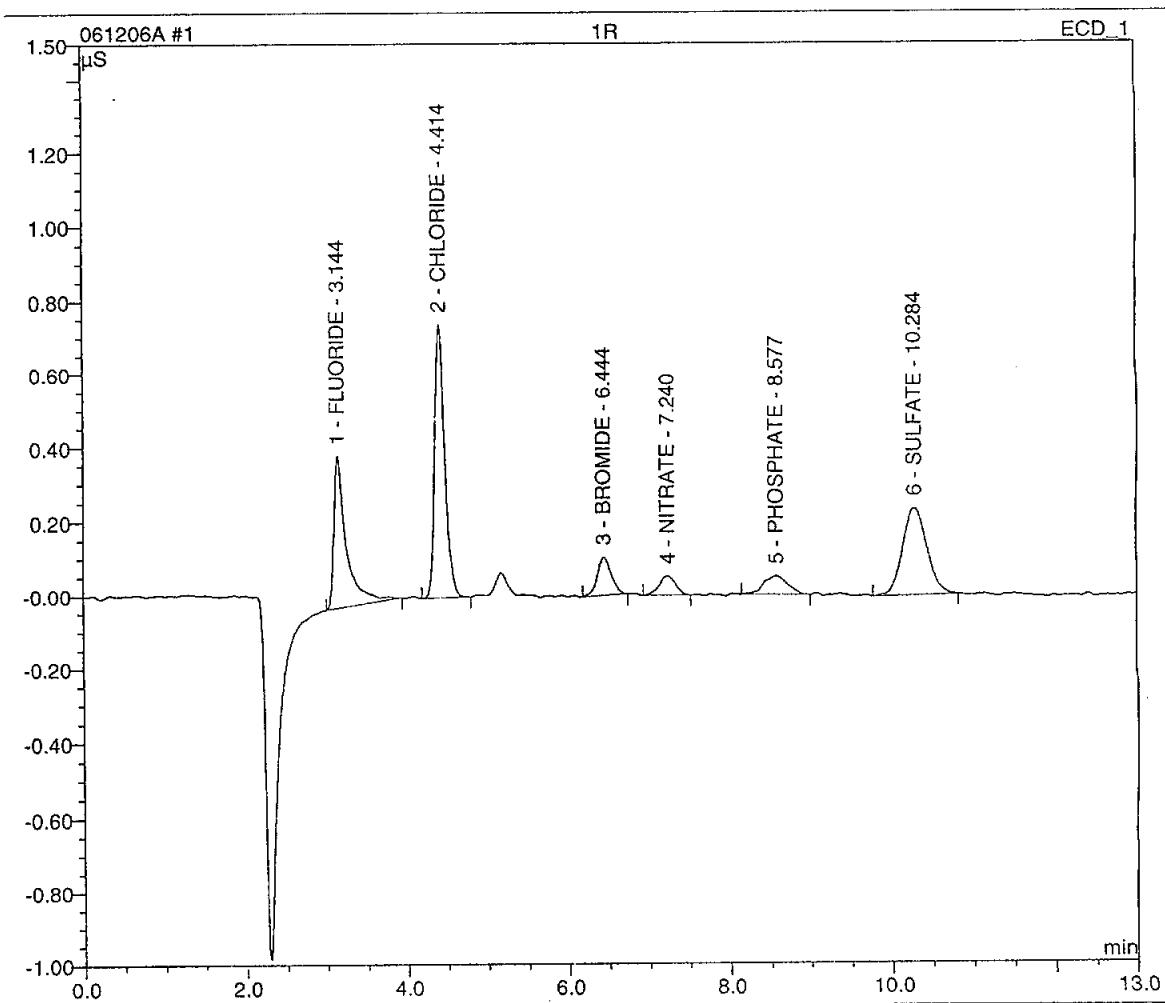
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(Modified, not saved)

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1	1R	12/1/2006 1:54:46 PM	100.0	2724-WC-39-3	OUNI SONIA	1.0000
2	2R	12/1/2006 2:10:16 PM	100.0	2724-WC-39-7	OUNI SONIA	1.0000
3	3R	12/1/2006 2:25:46 PM	100.0	2724-WC-40-1	OUNI SONIA	1.0000
4	4R	12/1/2006 2:41:16 PM	100.0	2724-WC-40-4	OUNI SONIA	1.0000
5	5R	12/1/2006 2:56:46 PM	100.0	2724-WC-40-7	OUNI SONIA	1.0000
6	6R	12/1/2006 3:12:16 PM	100.0	2724-WC-40-10	OUNI SONIA	1.0000
7	BLANK	12/6/2006 9:06:07 AM	100.0		OUNI SONIA	1.0000
8	ICV	12/6/2006 9:21:37 AM	100.0	2724-WC-12-5	OUNI SONIA	1.0000
9	ICB	12/6/2006 9:37:07 AM	100.0		OUNI SONIA	1.0000
10	JKMDA 1X G6L010149-1	12/6/2006 9:52:38 AM	100.0		OUNI SONIA	1.0000
11	JKMDV 1X G6L010149-2	12/6/2006 10:08:09 AM	100.0		OUNI SONIA	1.0000
12	JKMD3 5X G6L010149-3	12/6/2006 10:23:40 AM	100.0		OUNI SONIA	1.0000
13	JKMEC 1X G6L010149-5	12/6/2006 10:39:10 AM	100.0		OUNI SONIA	1.0000
14	JKMDA S 1X G6L010149-1	12/6/2006 10:54:41 AM	100.0	2627-WC-34-5	OUNI SONIA	1.0000
15	JKMDA D 1X G6L010149-1	12/6/2006 11:10:11 AM	100.0	2627-WC-34-5	OUNI SONIA	1.0000
16	JJ57V 1X G6K210180-1	12/6/2006 11:25:42 AM	100.0		OUNI SONIA	1.0000
17	JJ57X 1X G6K210180-2	12/6/2006 11:41:12 AM	100.0		OUNI SONIA	1.0000
18	JJ570 1X G6K210180-3	12/6/2006 11:56:42 AM	100.0		OUNI SONIA	1.0000
19	JJ571 1X G6K210180-4	12/6/2006 12:12:12 PM	100.0		OUNI SONIA	1.0000
20	CCV	12/6/2006 12:27:42 PM	100.0	2724-WC-40-7	OUNI SONIA	1.0000
21	CCB	12/6/2006 12:43:13 PM	100.0		OUNI SONIA	1.0000
22	JJ573 1X G6K210180-5	12/6/2006 12:58:43 PM	100.0		OUNI SONIA	1.0000
23	JJ8VM 1X G6K220186-1	12/6/2006 1:14:13 PM	100.0		OUNI SONIA	1.0000
24	JJ8VQ 1X G6K220186-2	12/6/2006 1:29:43 PM	100.0		OUNI SONIA	1.0000
25	JJ8VR 1X G6K220186-3	12/6/2006 1:45:13 PM	100.0		OUNI SONIA	1.0000
26	JJ8VT 1X G6K220186-4	12/6/2006 2:00:43 PM	100.0		OUNI SONIA	1.0000
27	JJ8VV 1X G6K220186-5	12/6/2006 2:16:14 PM	100.0		OUNI SONIA	1.0000
28	MB	12/6/2006 2:31:45 PM	100.0		OUNI SONIA	1.0000
29	LCS	12/6/2006 2:47:15 PM	100.0	2724-WC-40-10	OUNI SONIA	1.0000
30	DCS	12/6/2006 3:02:45 PM	100.0	2724-WC-40-10	OUNI SONIA	1.0000
31	CCV	12/6/2006 3:18:15 PM	100.0	2724-WC-40-7	OUNI SONIA	1.0000
32	CCB	12/6/2006 3:33:46 PM	100.0		OUNI SONIA	1.0000
33	SHUTDOWN	12/6/2006 3:49:16 PM	100.0		OUNI SONIA	1.0000
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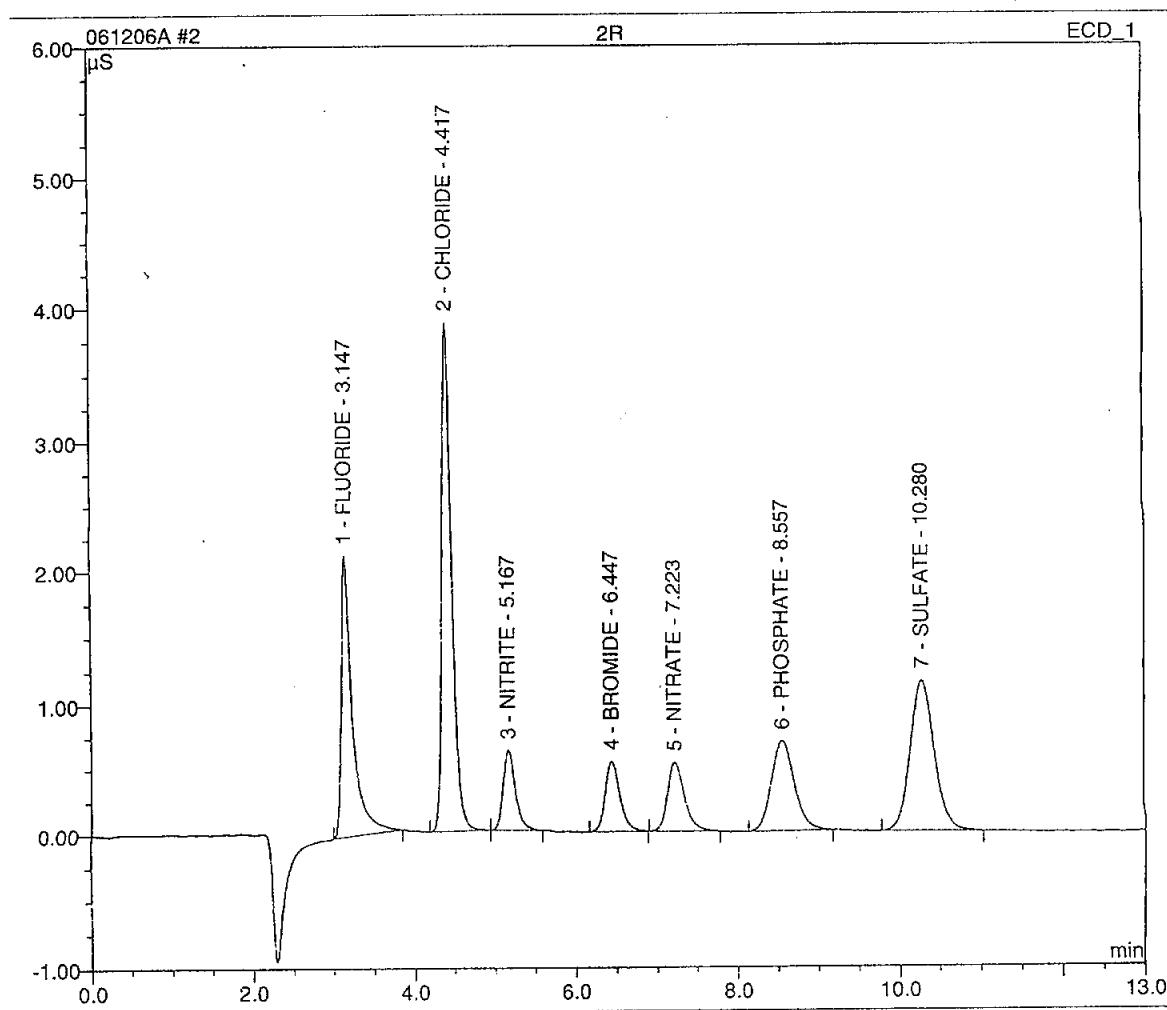
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Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 13:54	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.14	FLUORIDE	BMB	0.075	0.410	0.5223
2	4.41	CHLORIDE	BMB	0.106	0.743	0.9899
3	6.44	BROMIDE	BMB	0.021	0.104	0.4820
4	7.24	NITRATE	BMB	0.012	0.052	0.0494
5	8.58	PHOSPHATE	BMB	0.017	0.050	0.2007
6	10.28	SULFATE	BMB	0.082	0.234	1.0073
TOTAL:				0.31	1.59	3.25



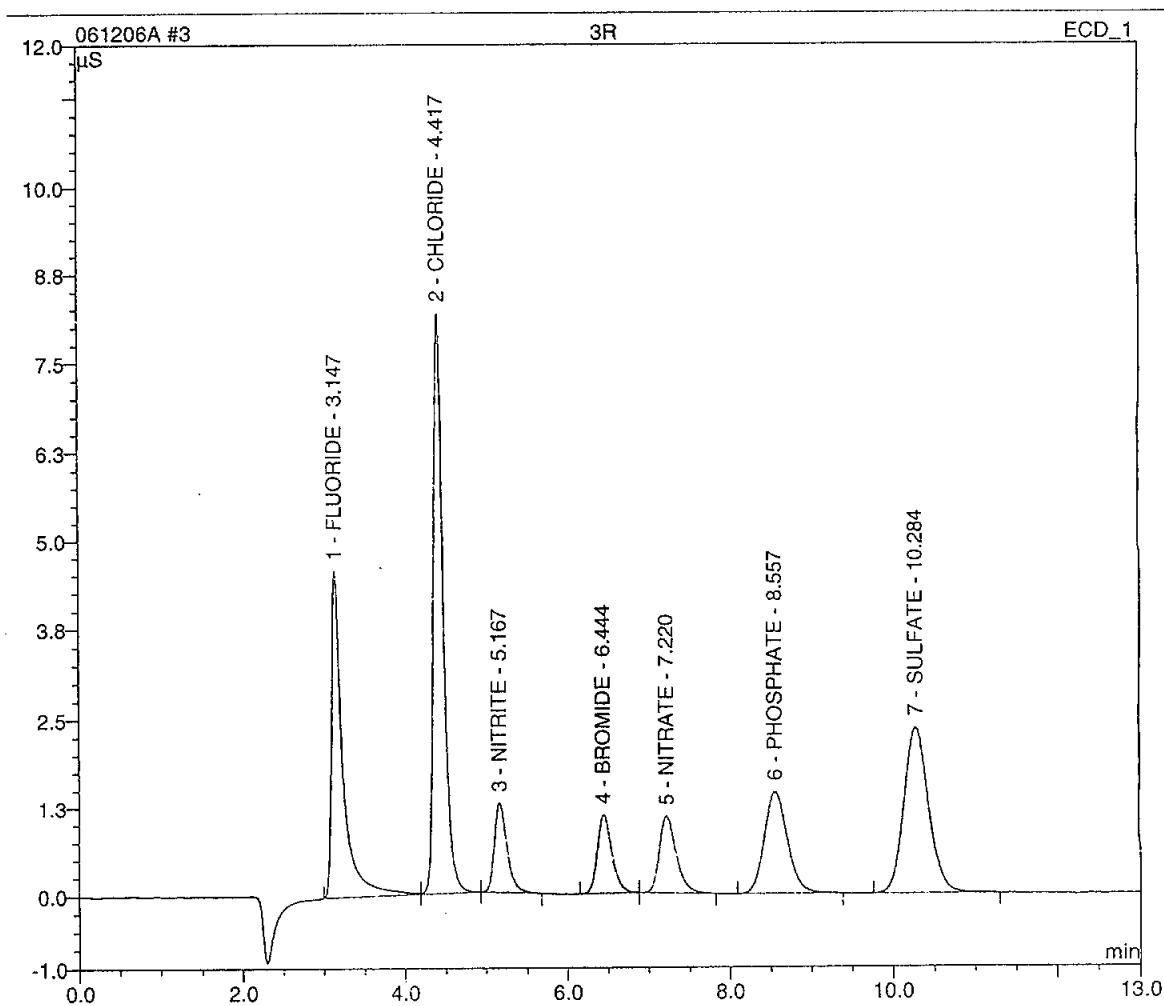
Sample Name:	2R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 14:10	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.15	FLUORIDE	BMB	0.346	2.141	2.3145
2	4.42	CHLORIDE	BMb	0.551	3.869	4.7442
3	5.17	NITRITE	bMB	0.109	0.623	0.4946
4	6.45	BROMIDE	BMB	0.115	0.549	2.5268
5	7.22	NITRATE	BMB	0.131	0.536	0.5059
6	8.56	PHOSPHATE	BMB	0.231	0.701	2.4380
7	10.28	SULFATE	BMB	0.406	1.159	4.9866
TOTAL:				1.89	9.58	18.01



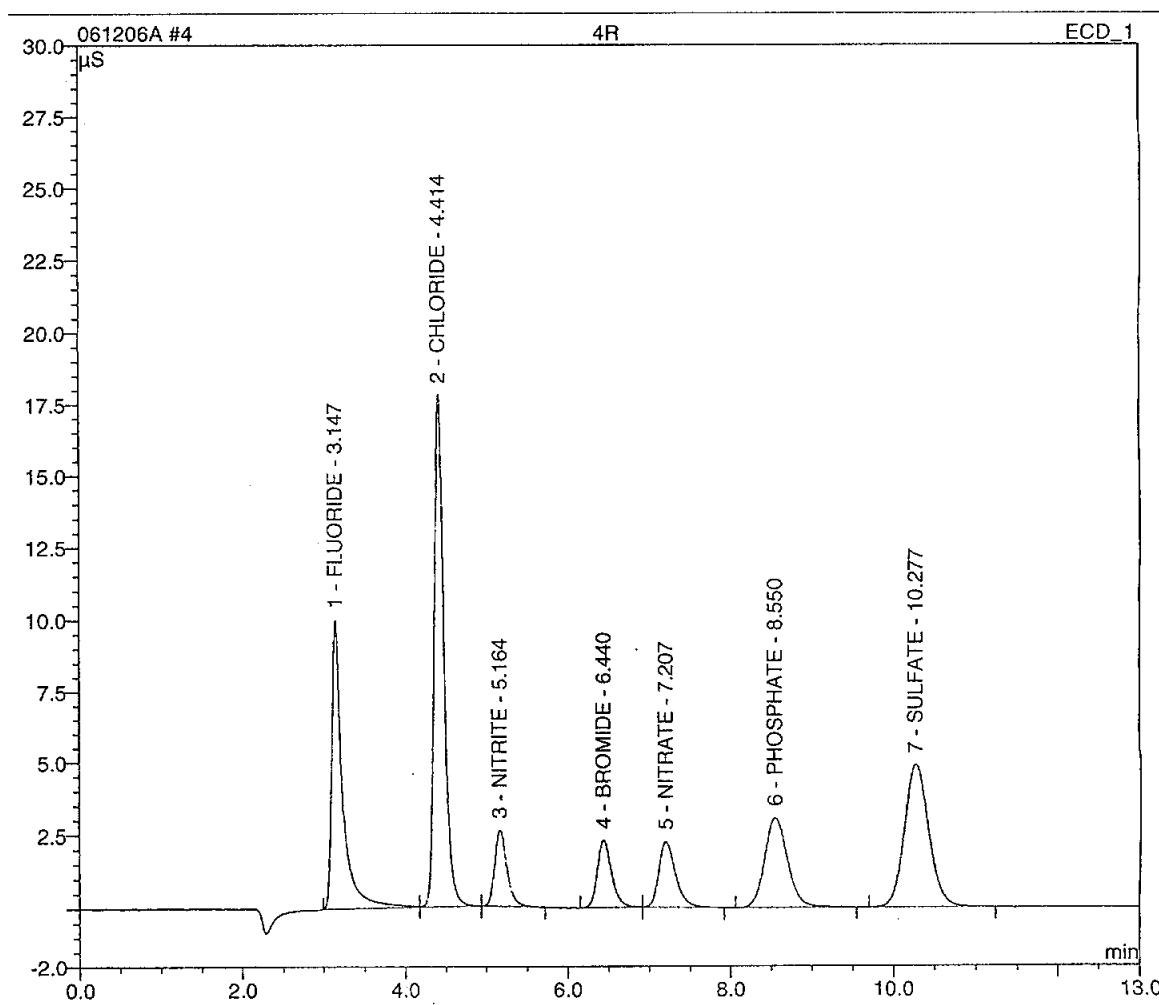
Sample Name:	3R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 14:25	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.15	FLUORIDE	BM	0.746	4.581	4.9428
2	4.42	CHLORIDE	Mb	1.151	8.158	9.6784
3	5.17	NITRITE	bMB	0.225	1.267	1.0027
4	6.44	BROMIDE	BMb	0.229	1.110	4.9953
5	7.22	NITRATE	bMB	0.259	1.084	0.9927
6	8.56	PHOSPHATE	BMB	0.474	1.445	4.9435
7	10.28	SULFATE	BMB	0.817	2.348	9.9604
TOTAL:				3.90	19.99	36.52



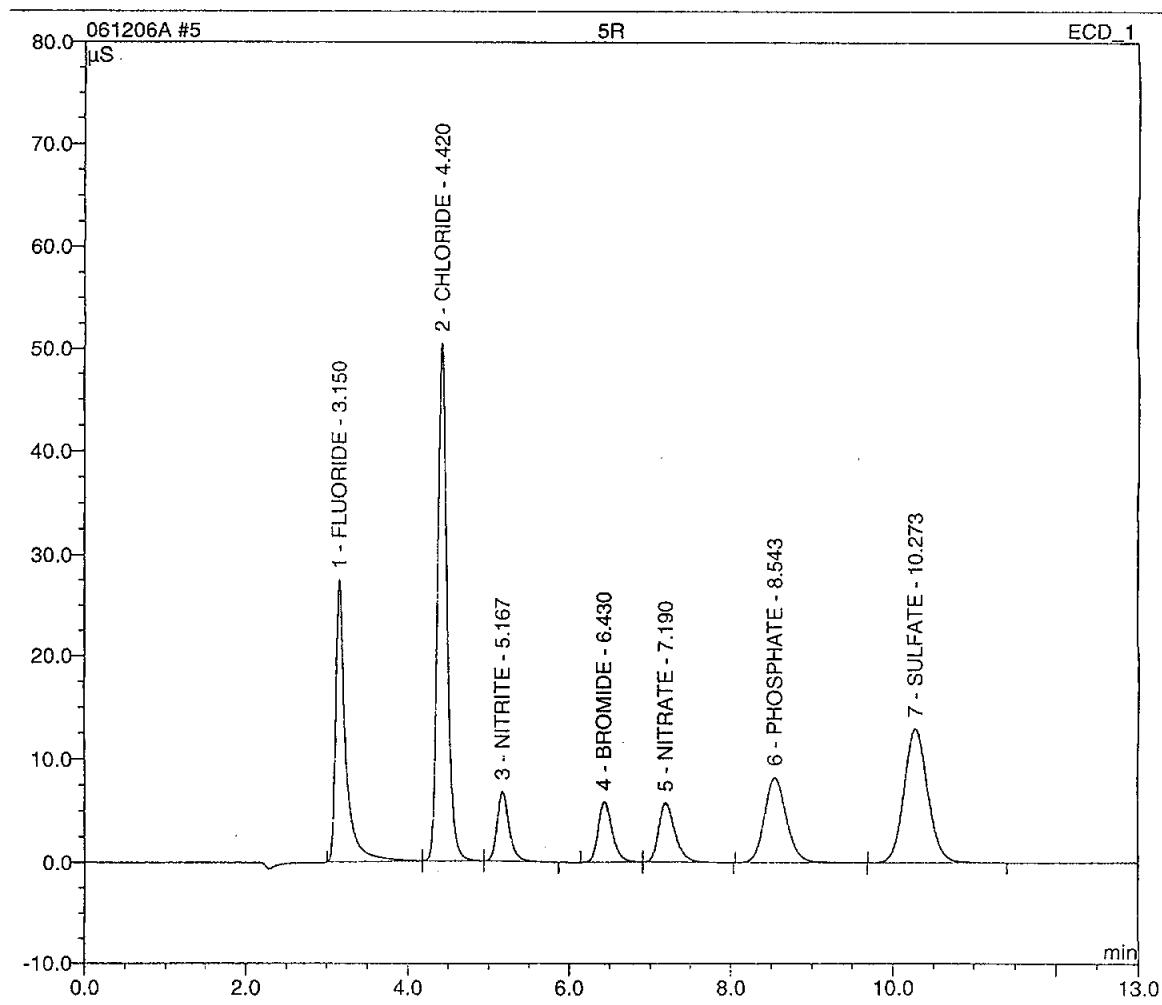
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Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 14:41	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.15	FLUORIDE	BM	1.539	10.005	10.0812
2	4.41	CHLORIDE	Mb	2.464	17.772	20.0097
3	5.16	NITRITE	bMB	0.453	2.576	1.9896
4	6.44	BROMIDE	BMb	0.469	2.277	10.1004
5	7.21	NITRATE	bMB	0.532	2.224	2.0178
6	8.55	PHOSPHATE	BMB	0.995	3.041	10.1270
7	10.28	SULFATE	BMB	1.681	4.863	20.1306
TOTAL:				8.13	42.76	74.46



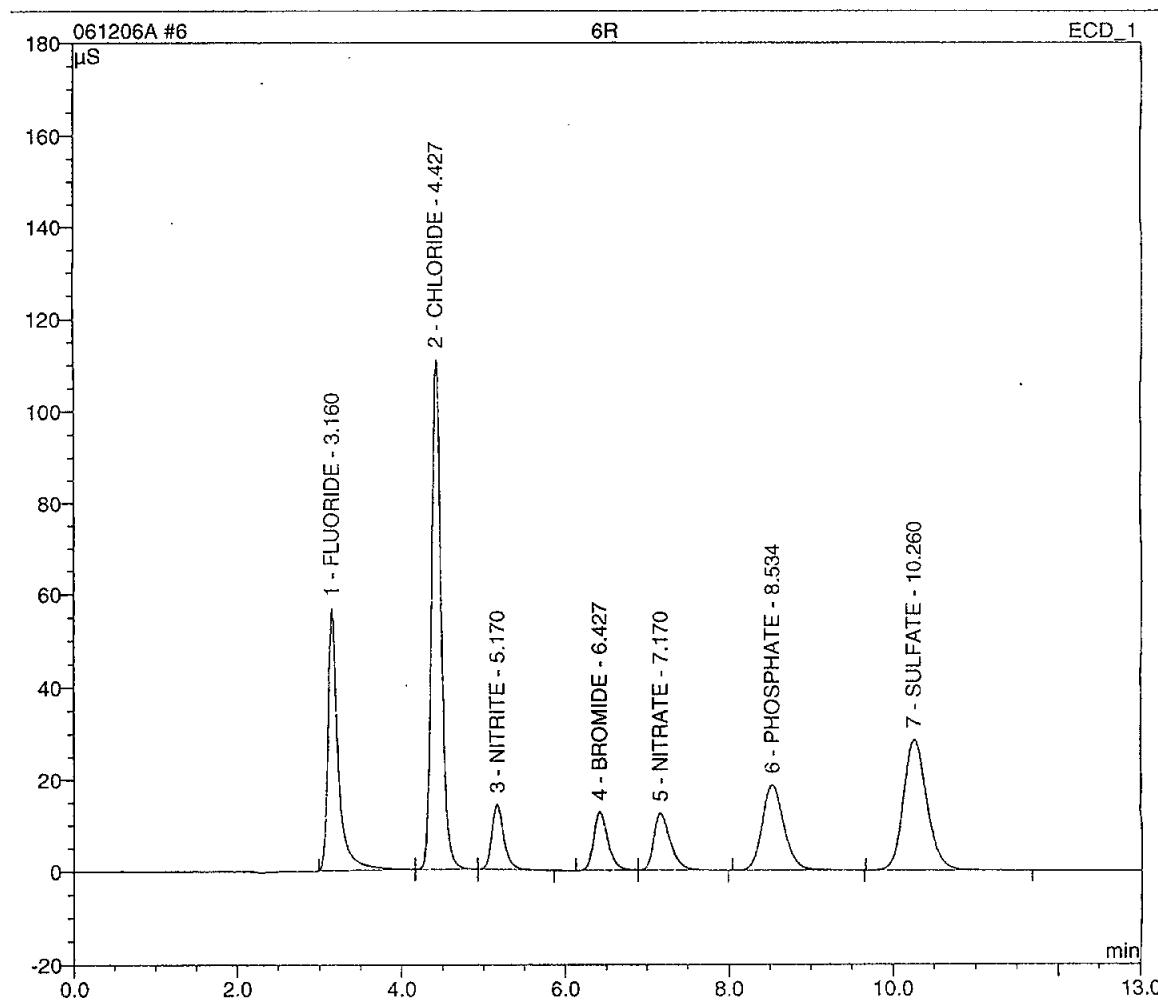
Sample Name:	5R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 14:56	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.15	FLUORIDE	BM	3.966	27.415	25.2582
2	4.42	CHLORIDE	Mb	6.838	50.353	50.8524
3	5.17	NITRITE	bMB	1.179	6.740	5.0206
4	6.43	BROMIDE	BMb	1.189	5.875	24.8418
5	7.19	NITRATE	bMB	1.354	5.736	4.9760
6	8.54	PHOSPHATE	BMB	2.606	8.218	25.0036
7	10.27	SULFATE	BMB	4.378	12.918	49.8821
TOTAL:				21.51	117.26	185.83



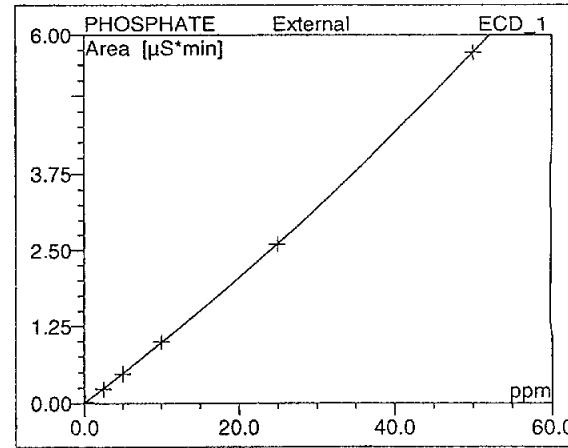
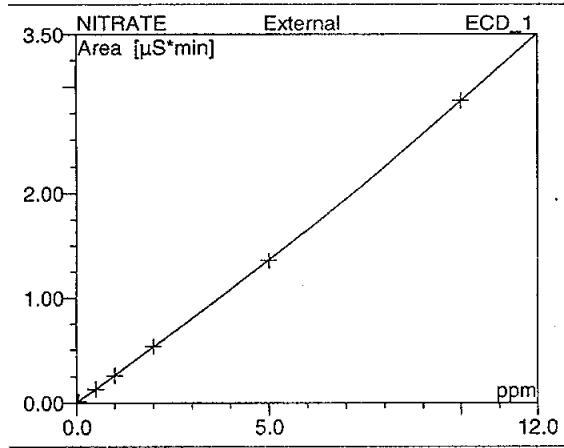
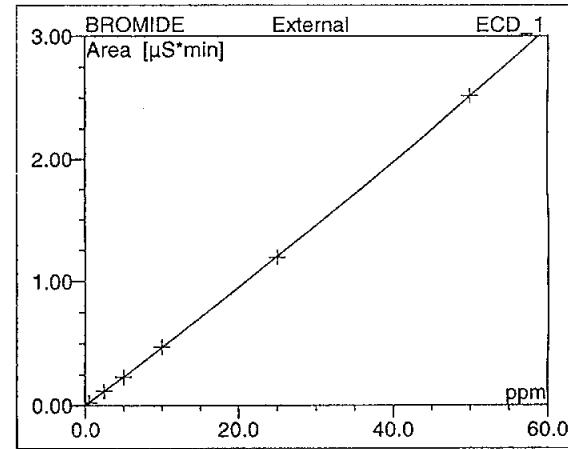
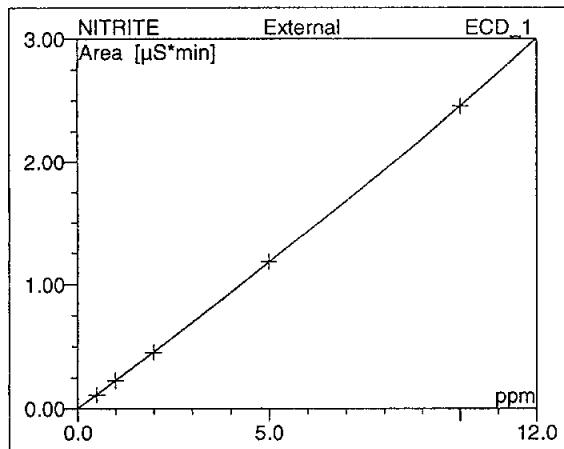
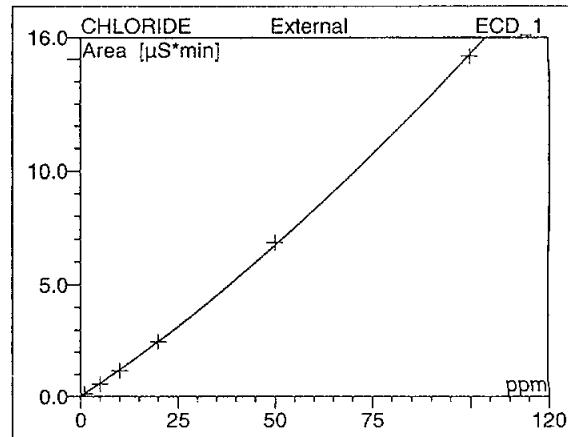
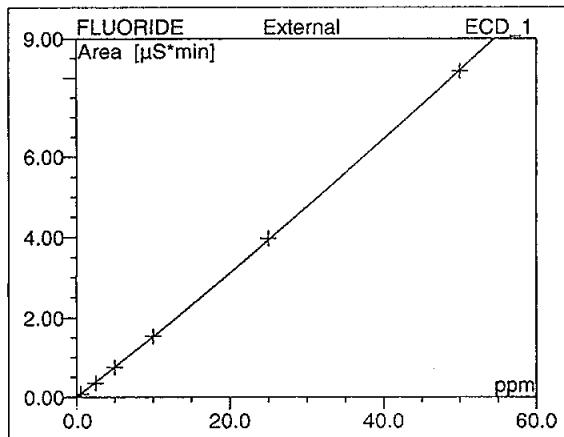
Sample Name:	6R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	01.12.06 15:12	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.16	FLUORIDE	BM	8.169	56.684	49.8791
2	4.43	CHLORIDE	Mb	15.160	110.726	99.6822
3	5.17	NITRITE	bMB	2.454	14.181	9.9923
4	6.43	BROMIDE	BMb	2.514	12.716	50.0545
5	7.17	NITRATE	bMB	2.865	12.362	10.0082
6	8.53	PHOSPHATE	BMB	5.709	18.593	49.9855
7	10.26	SULFATE	BMB	9.498	28.544	100.0340
TOTAL:				46.37	253.81	369.64

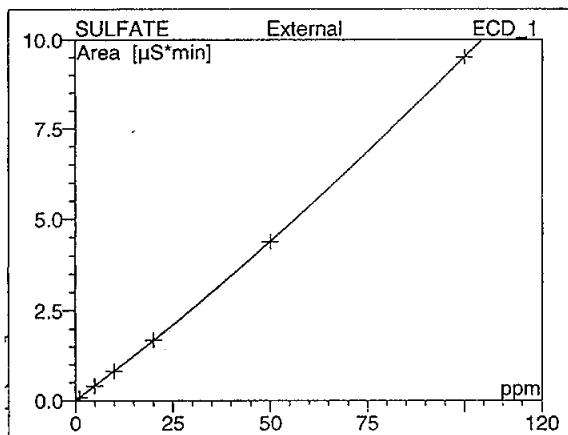


Calibration Batch Report

Sequence:	061206A	Inj. Vol.:	100.0
Program:	AS14A PROGRAM	Operator:	SACPC205ICS1000
Int. Date/Time:	12/01/06 15:12	Run Time:	13.00



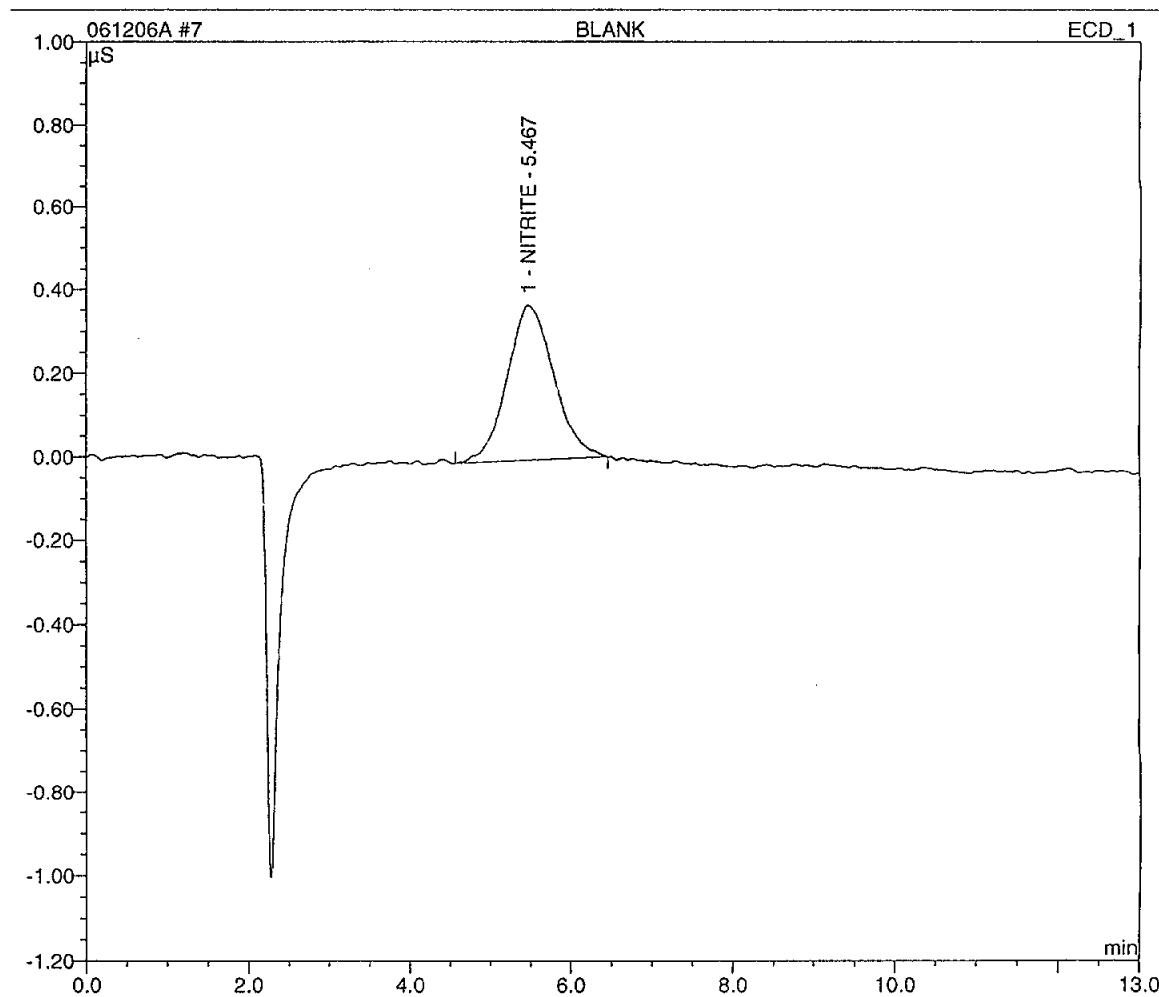
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Program:	AS14A PROGRAM	Operator:	n.a.
Inj. Date/Time:	12/01/06 15:12	Run Time:	13.00



No.	Ret. Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.16	FLUORIDE	X0QOff	6	-0.004	0.150	0.000	99.953
2	4.43	CHLORIDE	X0QOff	6	-0.009	0.116	0.000	99.671
3	5.17	NITRITE	X0QOff	5	-0.002	0.224	0.002	99.971
4	6.43	BROMIDE	X0QOff	6	-0.001	0.046	0.000	99.952
5	7.17	NITRATE	X0QOff	6	0.000	0.258	0.003	99.942
6	8.53	PHOSPHATE	X0QOff	6	-0.002	0.094	0.000	99.809
7	10.26	SULFATE	X0QOff	6	0.000	0.081	0.000	99.864
AVERAGE:					-0.0026	0.1386	0.0009	99.8801

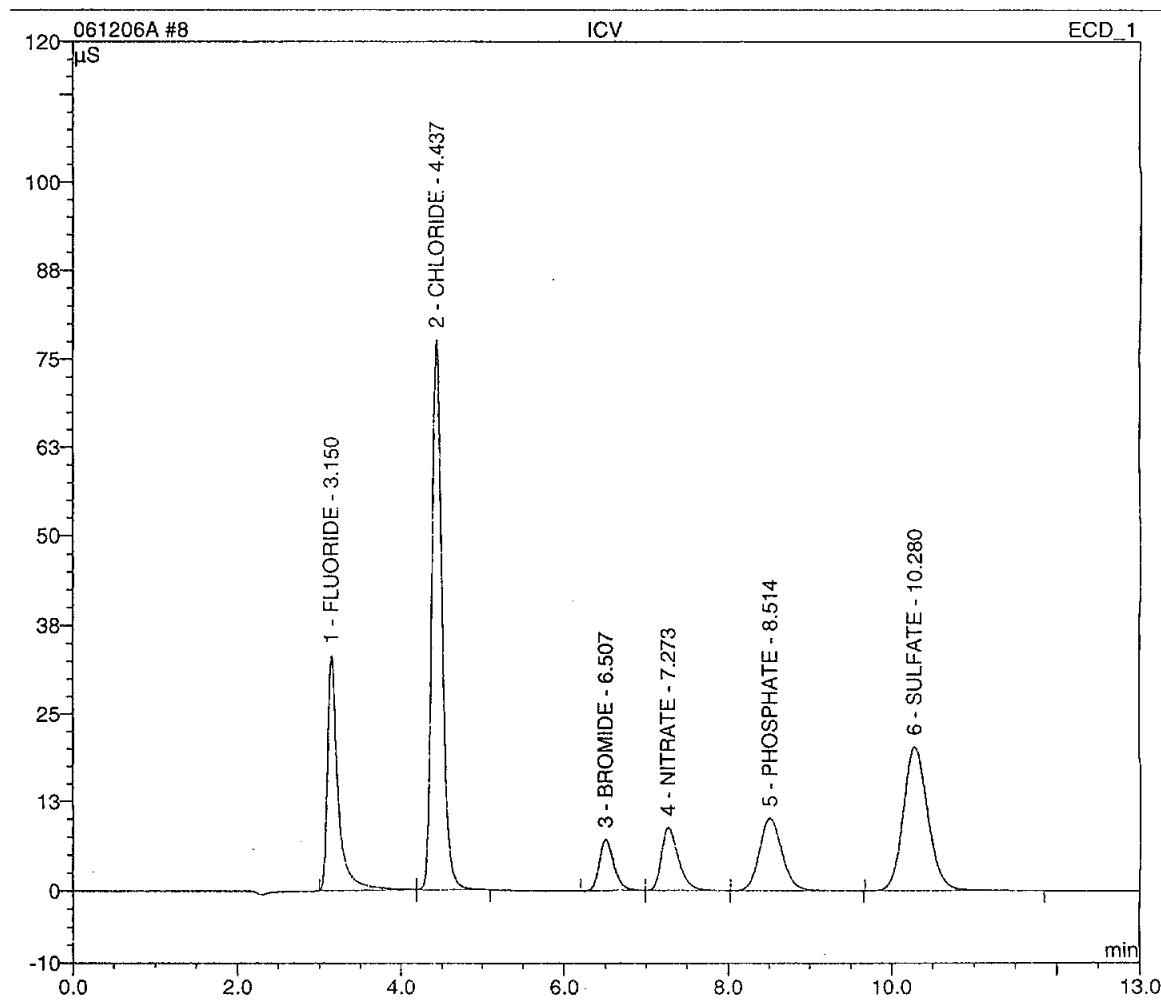
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Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 09:06	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	5.47	NITRITE	BMB	0.251	0.371	1.1174
TOTAL:				0.25	0.37	1.12



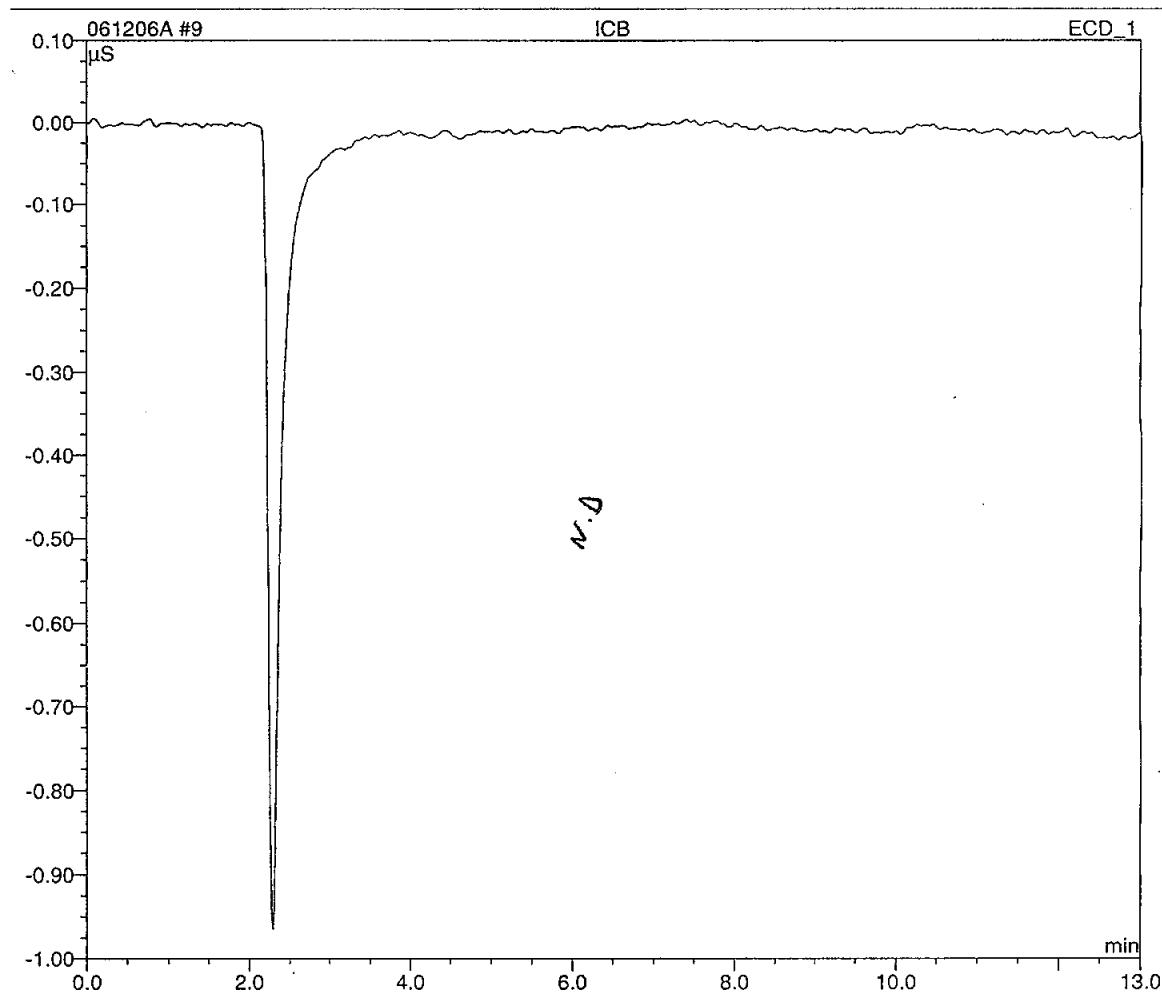
Sample Name:	ICV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 09:21	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	% Amount ppm
1	3.15	FLUORIDE	BM	4.945	33.199	31.1698
2	4.44	CHLORIDE	MB	11.084	77.560	103 77.0167
3	6.51	BROMIDE	BMb	1.468	7.078	30.3321
4	7.27	NITRATE	bMB	2.109	8.740	7.5496
5	8.51	PHOSPHATE	BMB	3.207	10.052	30.1700
6	10.28	SULFATE	BMB	6.962	20.271	101 76.0795
TOTAL:				29.78	156.90	252.32



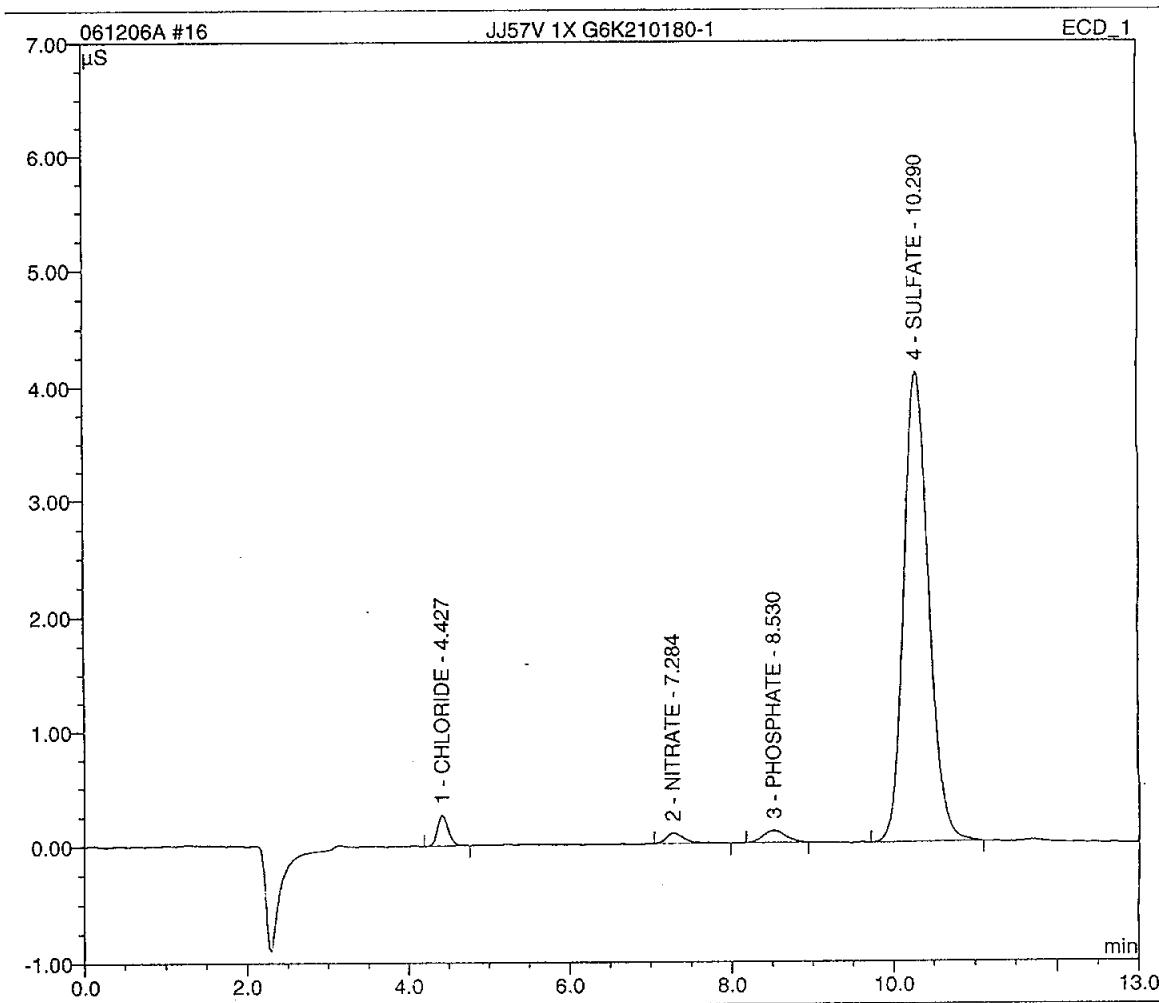
Sample Name:	ICB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 09:37	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



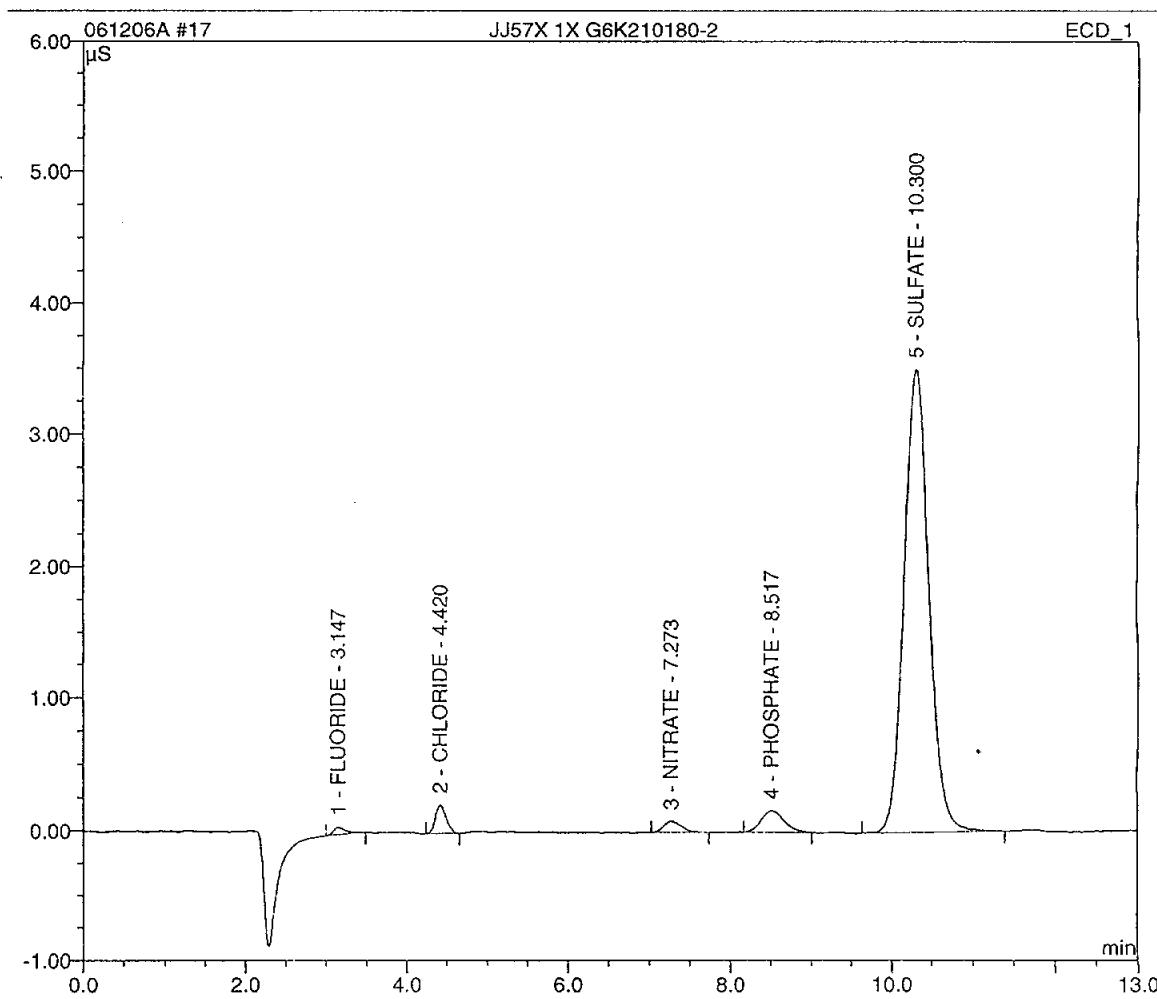
Sample Name:	JJ57V 1X G6K210180-1	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 11:25	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	4.43	CHLORIDE	BMB	0.042	0.264	0.4370
2	7.28	NITRATE	BMB	0.024	0.089	0.0952
3	8.53	PHOSPHATE	BMB	0.035	0.104	0.3889
4	10.29	SULFATE	BMB	1.450	4.094	17.4494
		TOTAL:		1.55	4.55	18.37



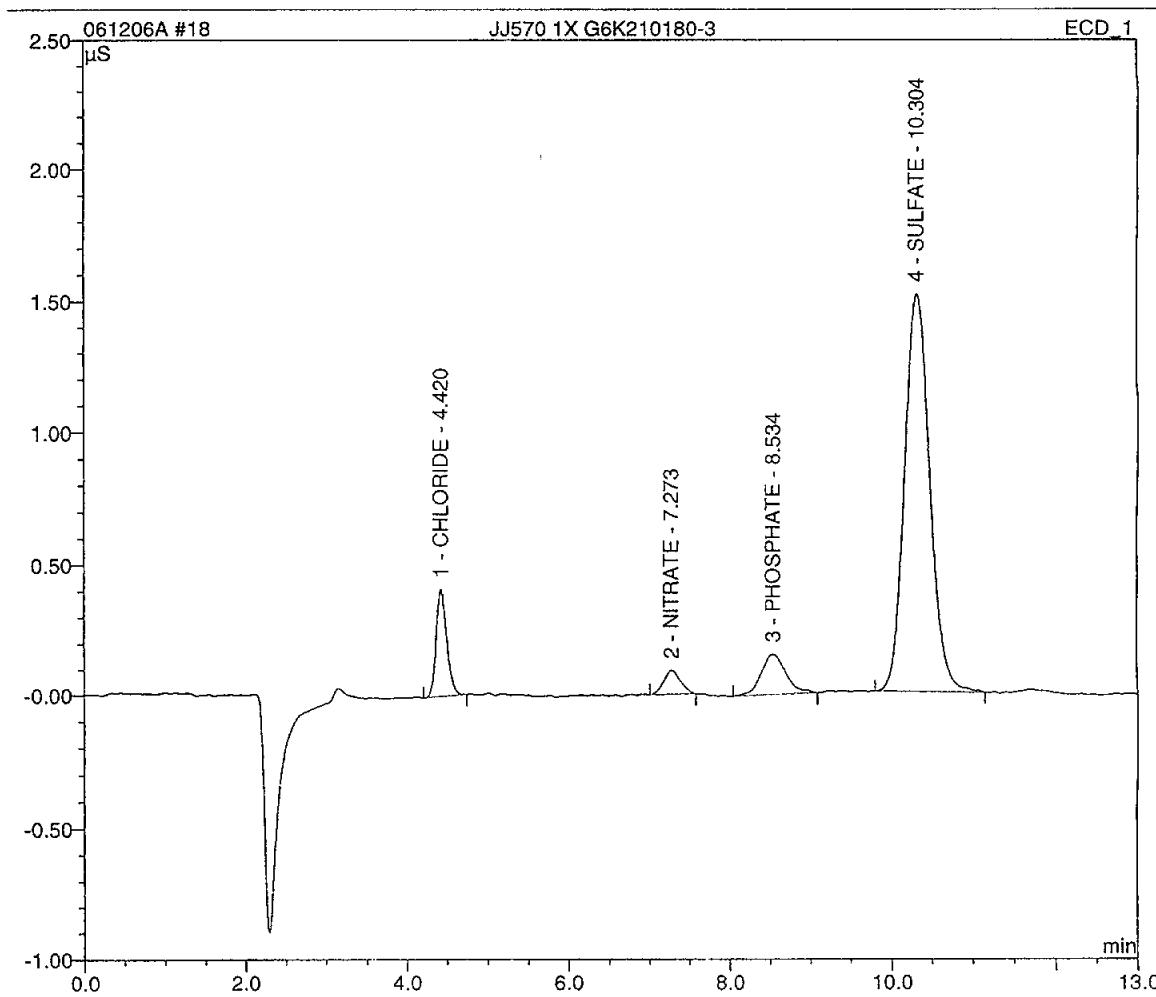
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Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 11:41	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.15	FLUORIDE	BMB	0.010	0.056	0.0919
2	4.42	CHLORIDE	BMB	0.033	0.216	0.3659
3	7.27	NITRATE	BMB	0.022	0.084	0.0855
4	8.52	PHOSPHATE	BMB	0.054	0.164	0.5898
5	10.30	SULFATE	BMB	1.246	3.502	15.0480
TOTAL:				1.36	4.02	16.18



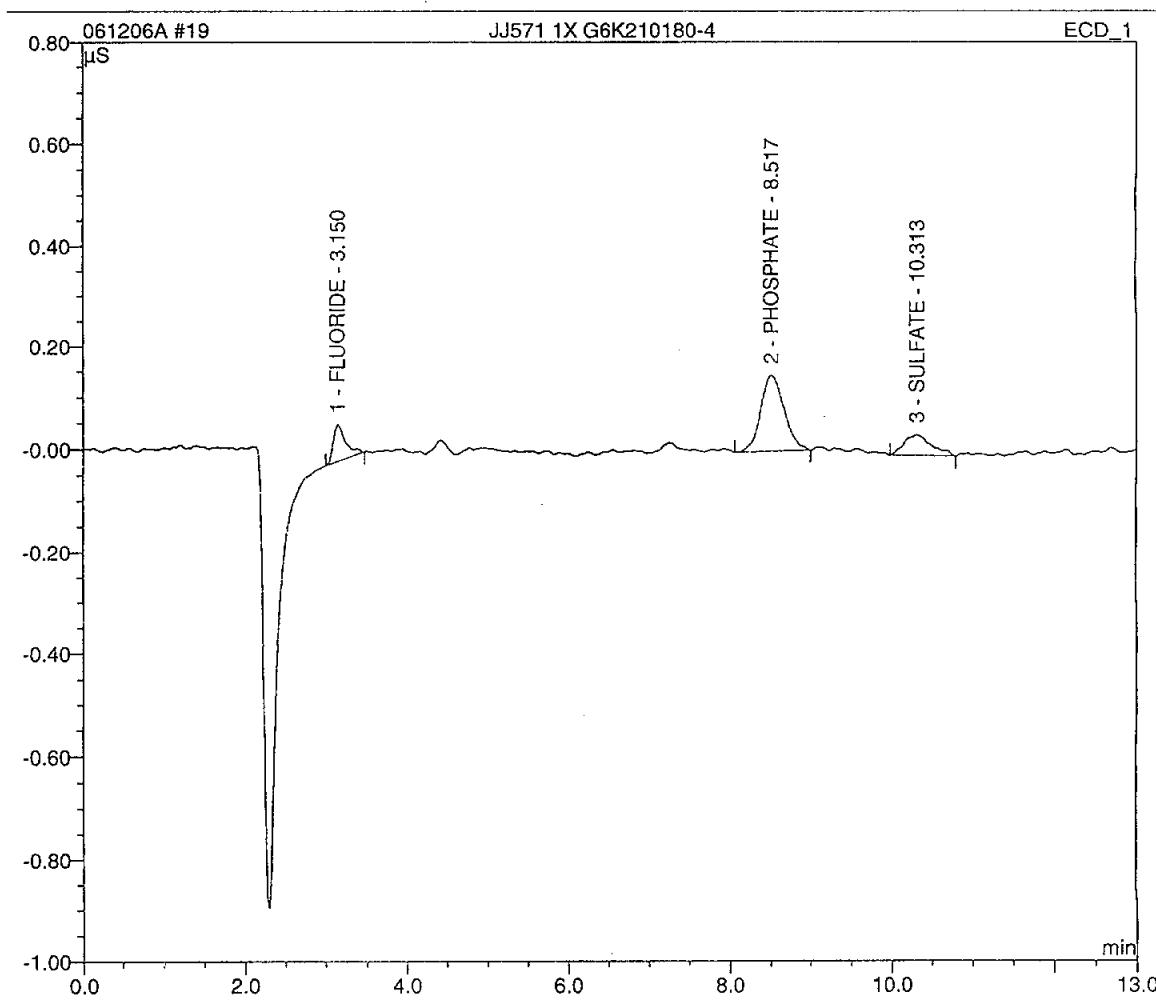
Sample Name:	JJ570 1X G6K210180-3	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 11:56	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	4.42	CHLORIDE	BMB	0.064	0.414	0.6245
2	7.27	NITRATE	BMB	0.023	0.096	0.0904
3	8.53	PHOSPHATE	BMB	0.057	0.159	0.6223
4	10.30	SULFATE	BMB	0.544	1.516	6.6617
		TOTAL:		0.69	2.19	8.00



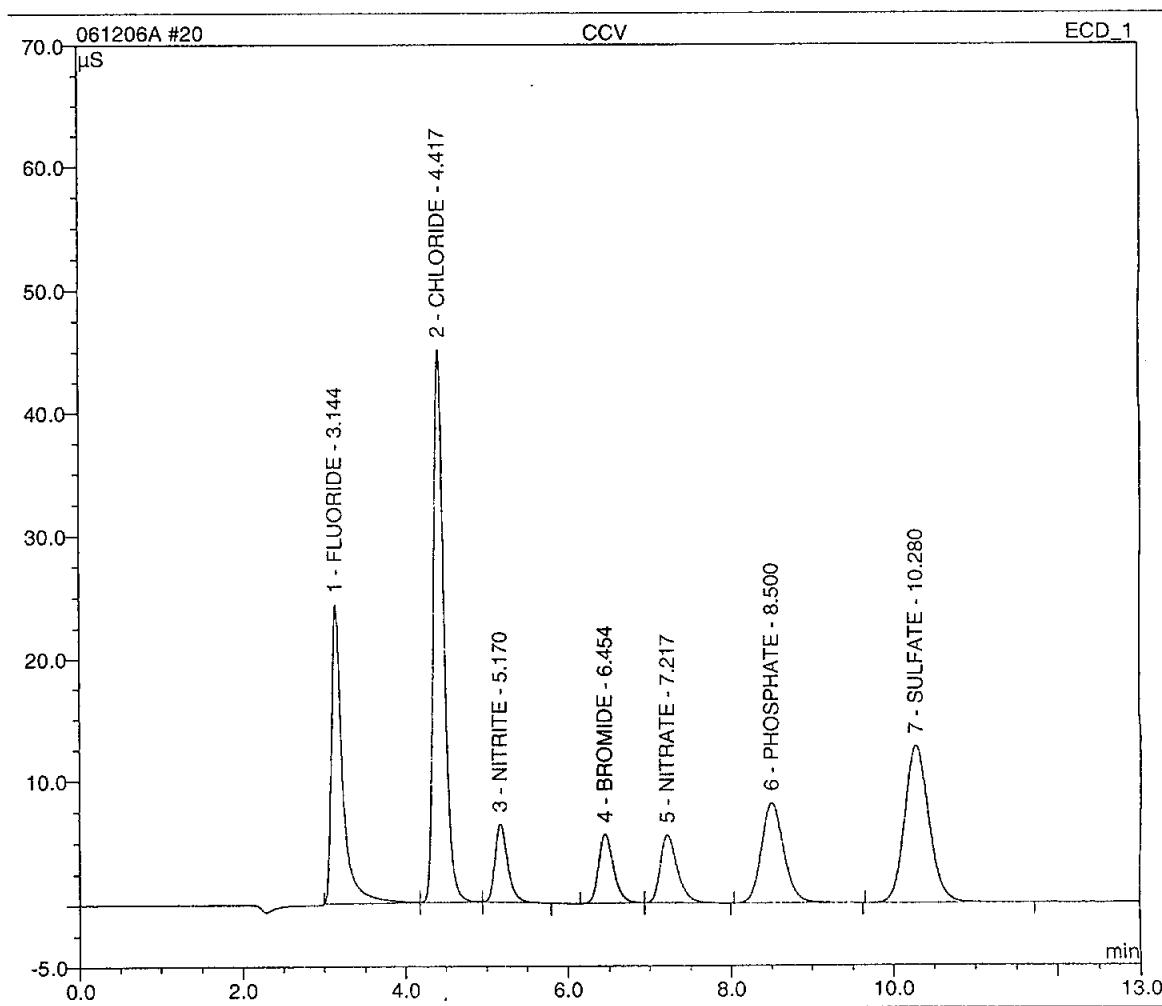
Sample Name:	JJ571 1X G6K210180-4	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 12:12	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.15	FLUORIDE	BMB	0.012	0.070	0.1070
2	8.52	PHOSPHATE	BMB	0.049	0.146	0.5407
3	10.31	SULFATE	BMB	0.016	0.040	0.1878
TOTAL:				0.08	0.26	0.84



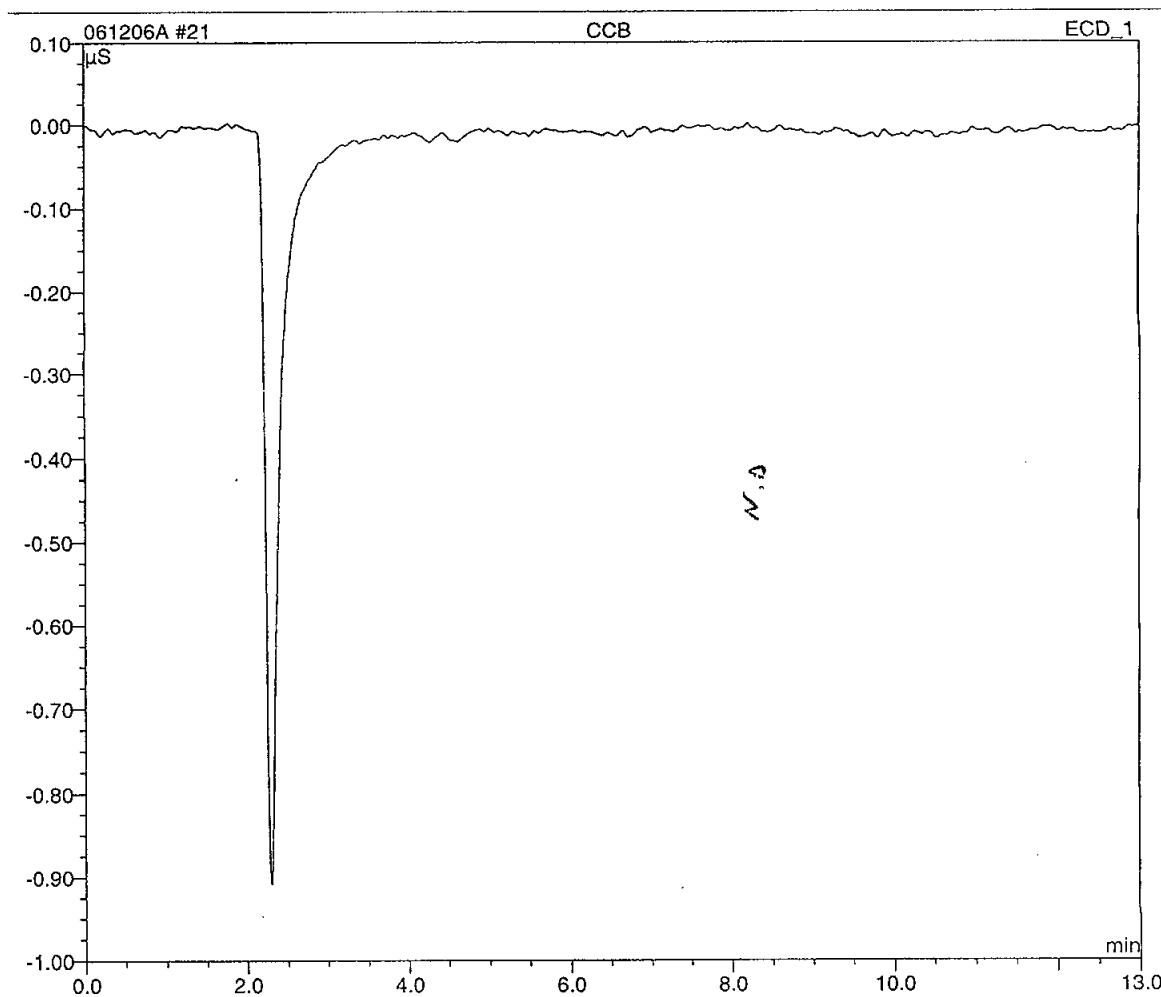
Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 12:27	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.14	FLUORIDE	BM	3.894	24.299	24.8180
2	4.42	CHLORIDE	Mb	6.748	44.959	50.2615
3	5.17	NITRITE	bMB	1.172	6.282	4.9917
4	6.45	BROMIDE	BMb	1.184	5.561	24.7338
5	7.22	NITRATE	bMB	1.346	5.467	4.9459
6	8.50	PHOSPHATE	BMB	2.588	8.037	24.8452
7	10.28	SULFATE	BMB	4.368	12.629	49.7829
TOTAL:				21.30	107.23	184.38



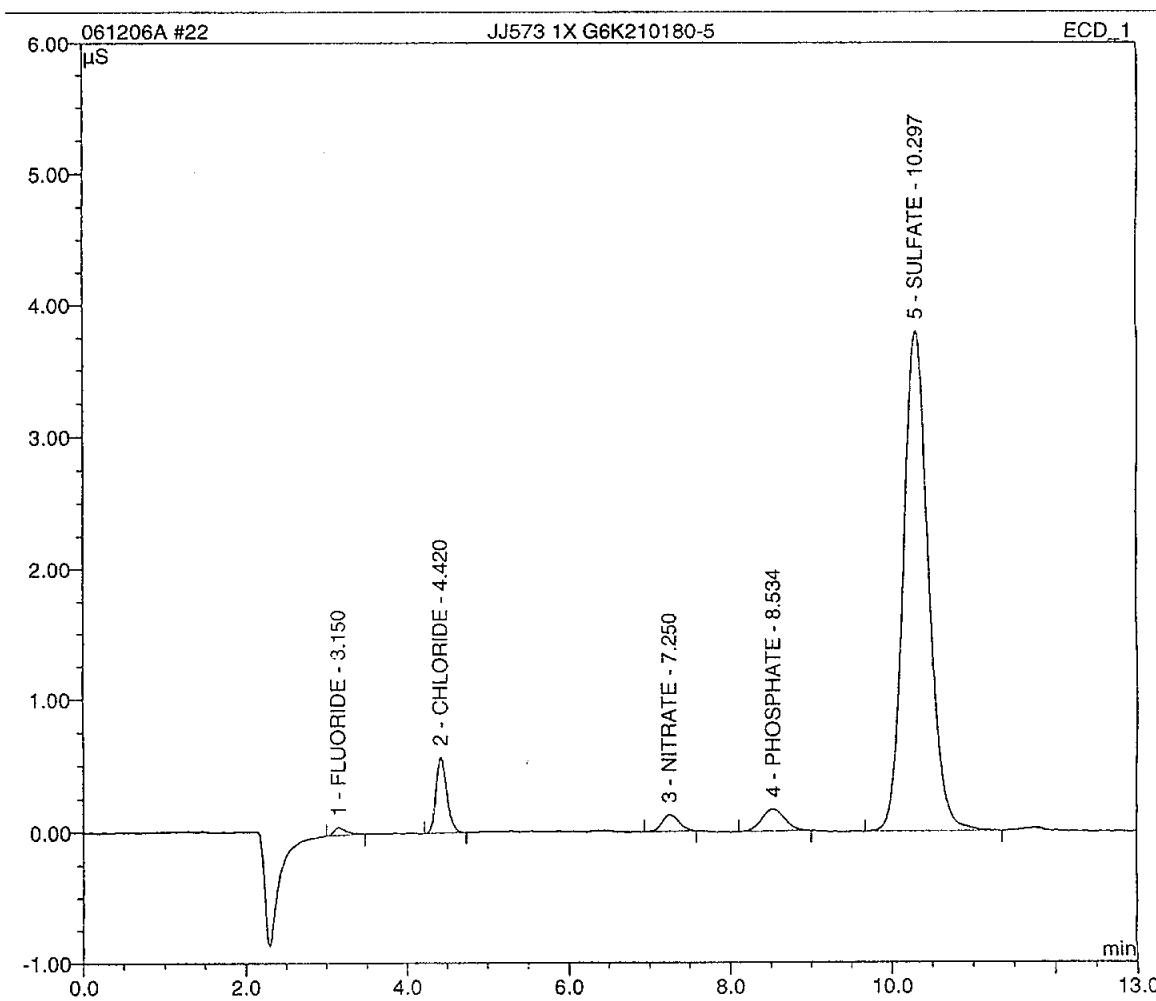
Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 12:43	Run Time:	13.00

No.	Time min	Peak Name	Type	Area μS·min	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



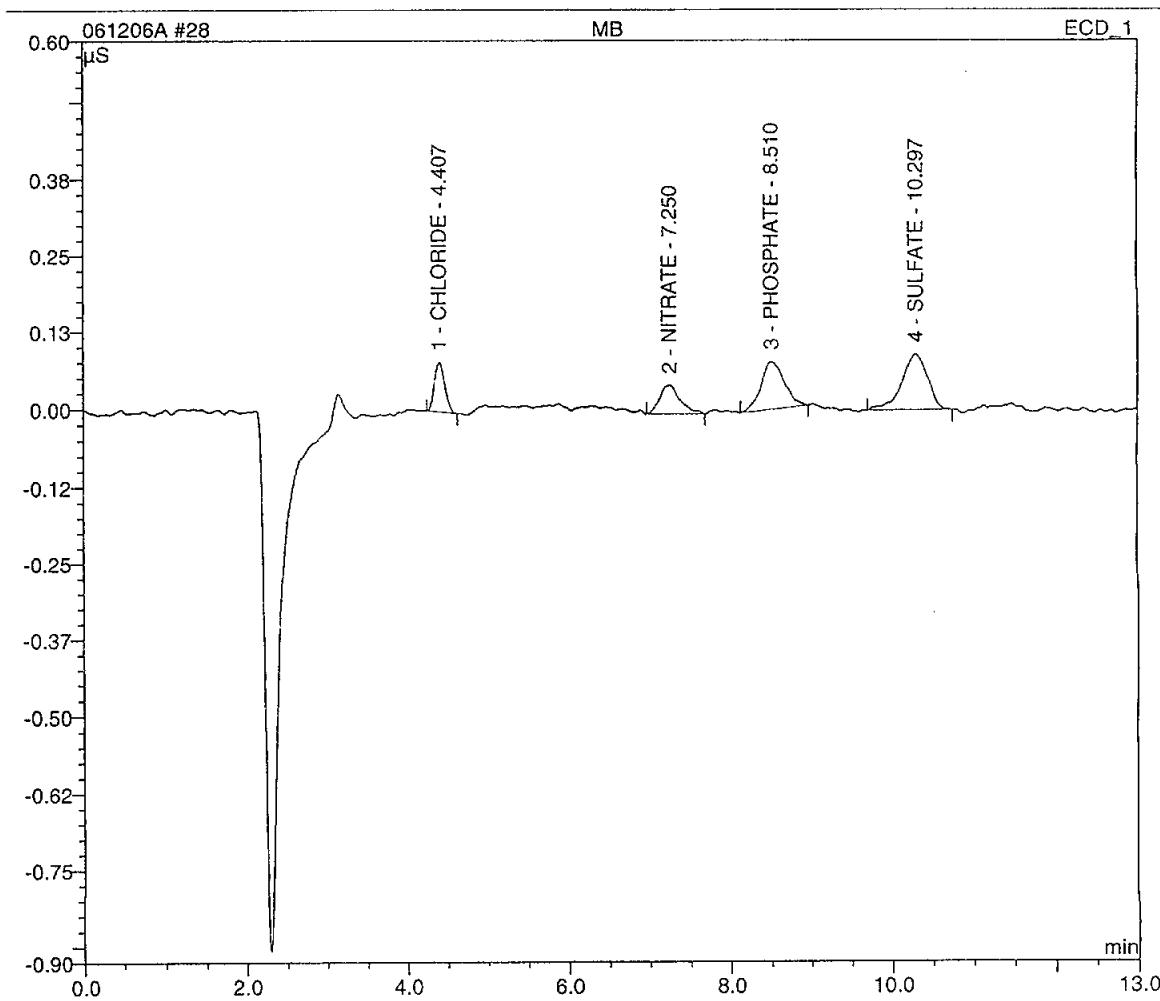
Sample Name:	JJ573 1X G6K210180-5	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 12:58	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.15	FLUORIDE	BMB	0.011	0.057	0.0951
2	4.42	CHLORIDE	BMB	0.088	0.564	0.8355
3	7.25	NITRATE	BMB	0.031	0.126	0.1222
4	8.53	PHOSPHATE	BMB	0.055	0.168	0.6048
5	10.30	SULFATE	BMB	1.347	3.791	16.2345
TOTAL:				1.53	4.71	17.89



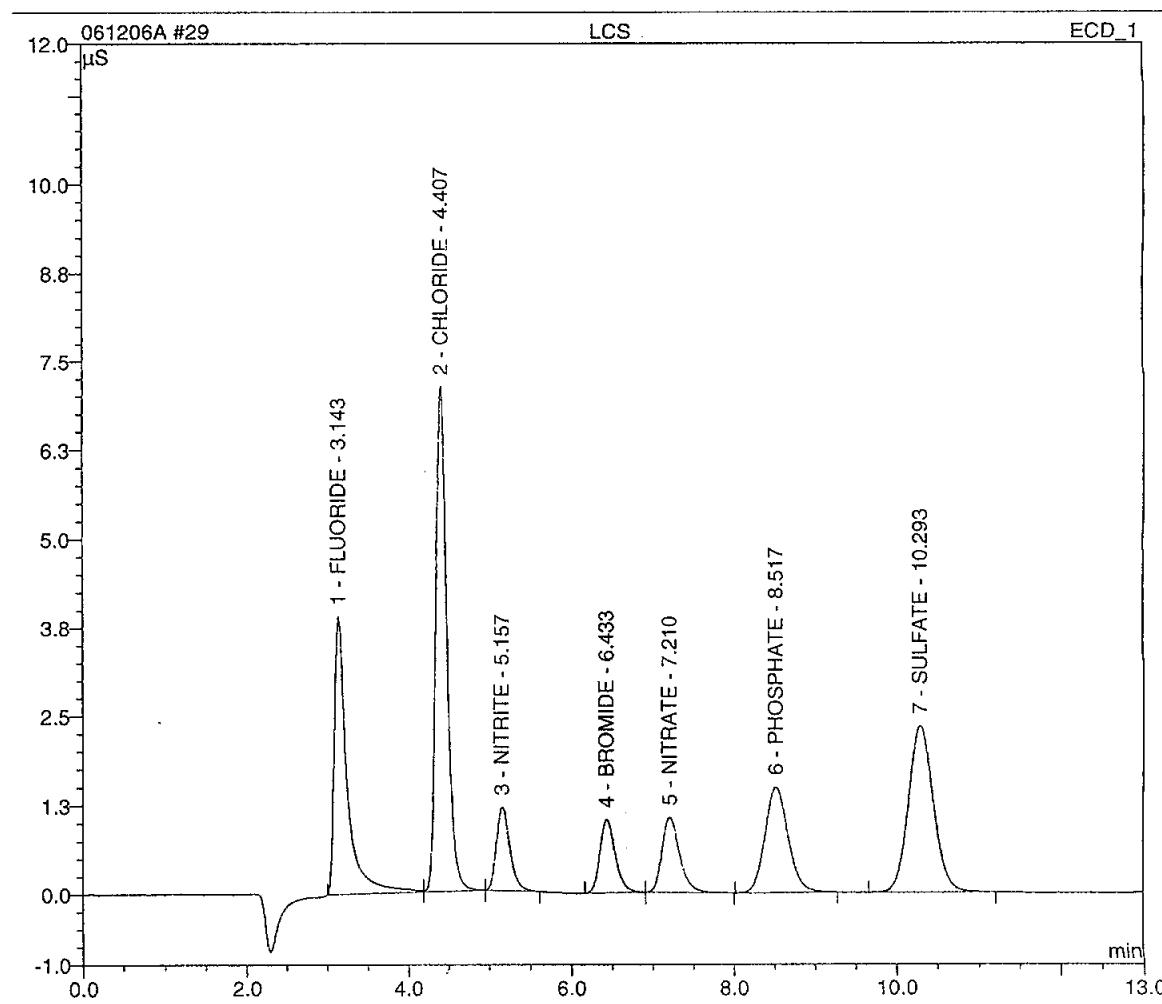
Sample Name:	MB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 14:31	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	4.41	CHLORIDE	BMB	0.012	0.079	0.1800
2	7.25	NITRATE	BMB	0.014	0.046	0.0543
3	8.51	PHOSPHATE	BMB	0.026	0.077	0.2928
4	10.30	SULFATE	BMB	0.033	0.090	0.4012
		TOTAL:		0.08	0.29	0.93



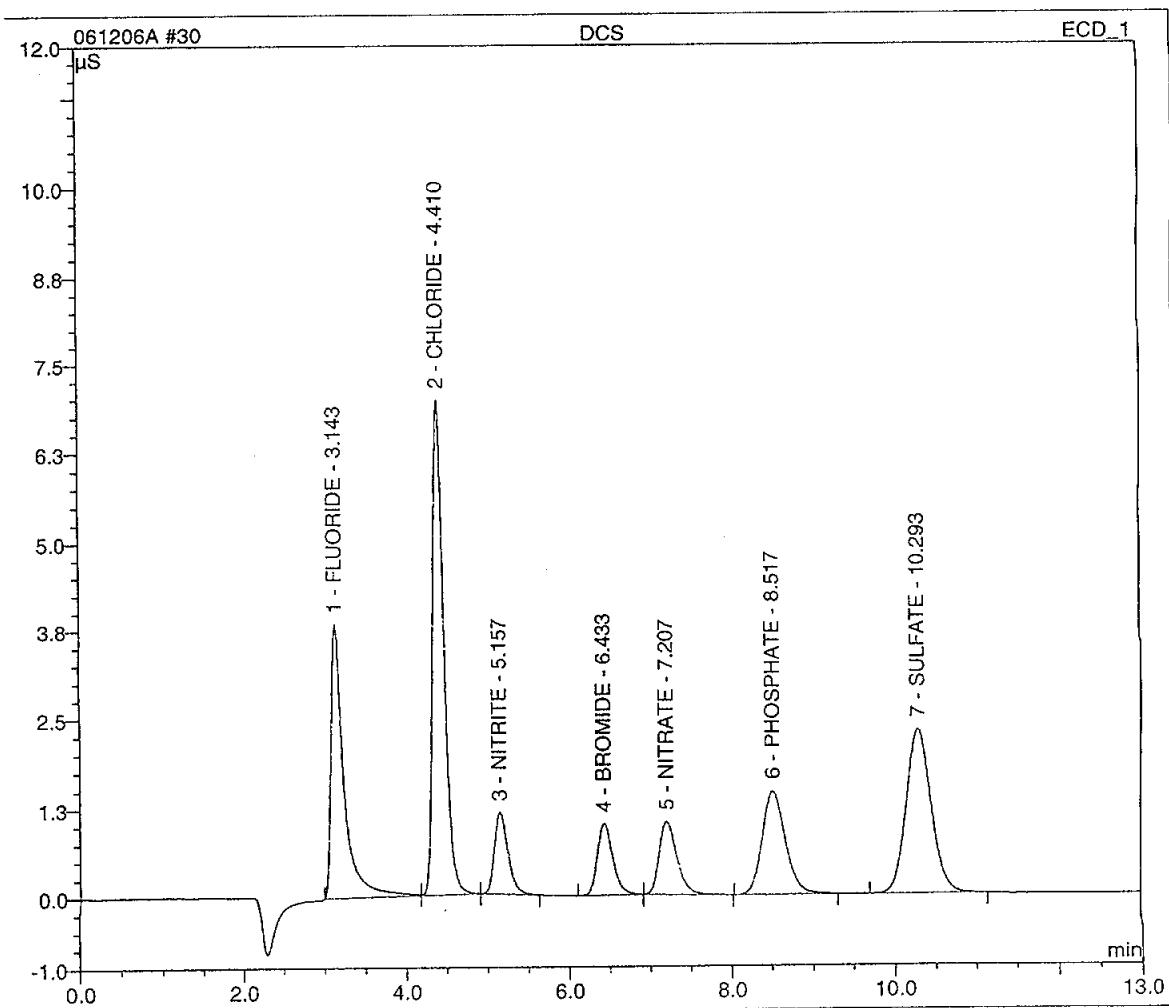
Sample Name:	LCS	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 14:47	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.14	FLUORIDE	BM	0.730	3.910	4.8368
2	4.41	CHLORIDE	Mb	1.134	7.096	9.5444
3	5.16	NITRITE	bMB	0.225	1.174	1.0029
4	6.43	BROMIDE	BMb	0.228	1.031	4.9600
5	7.21	NITRATE	bMB	0.269	1.057	1.0316
6	8.52	PHOSPHATE	BMB	0.496	1.480	5.1653
7	10.29	SULFATE	BMB	0.828	2.331	10.0923
TOTAL:				3.91	18.08	36.63



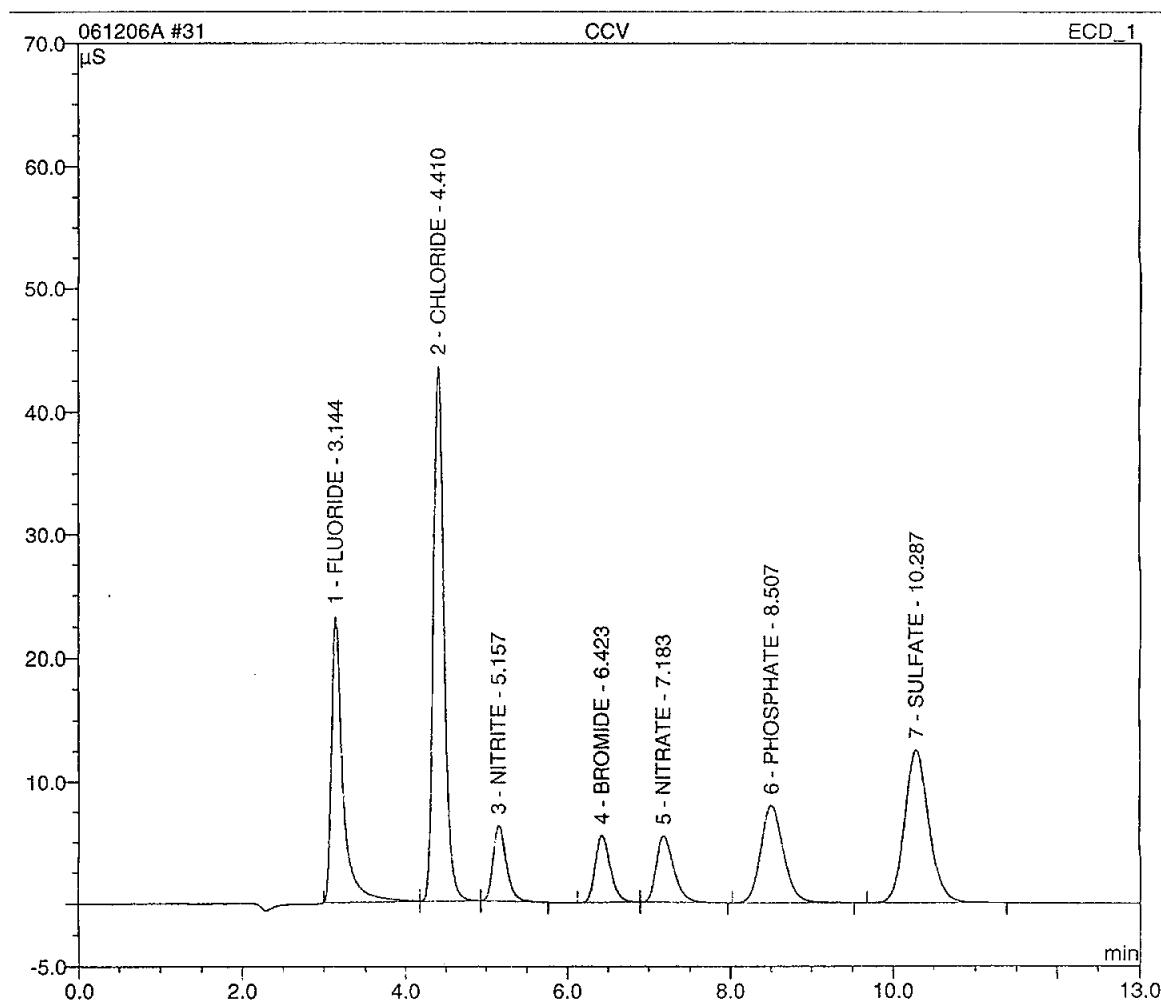
Sample Name:	DCS	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 15:02	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.14	FLUORIDE	BM	0.712	3.849	4.7192
2	4.41	CHLORIDE	Mb	1.111	6.950	9.3524
3	5.16	NITRITE	bMB	0.223	1.157	0.9930
4	6.43	BROMIDE	BMB	0.226	1.015	4.9236
5	7.21	NITRATE	BMB	0.263	1.036	1.0104
6	8.52	PHOSPHATE	BMB	0.491	1.459	5.1087
7	10.29	SULFATE	BMB	0.820	2.296	9.9966
TOTAL:				3.85	17.76	36.10



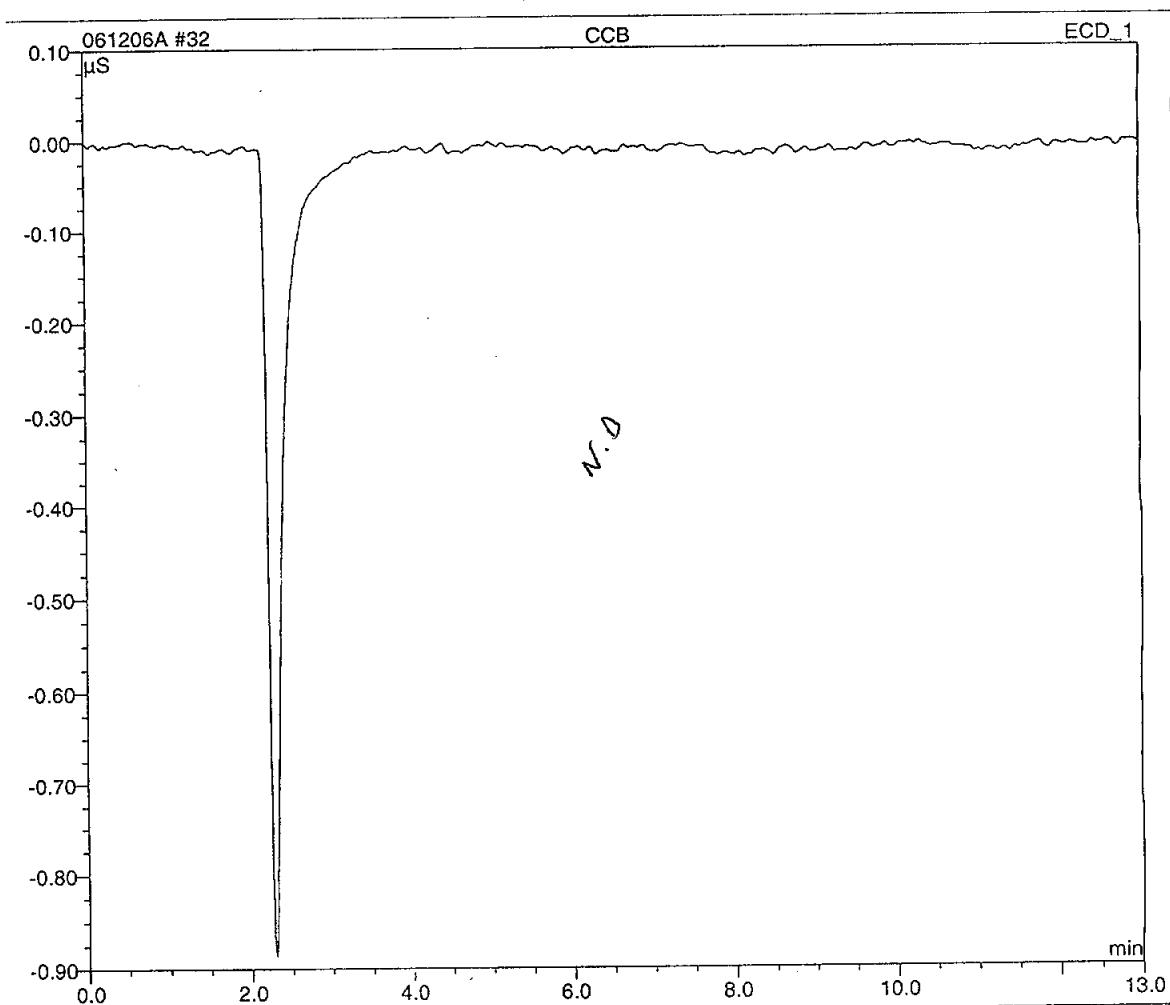
Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 15:18	Run Time:	13.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount ppm
1	3.14	FLUORIDE	BM	3.842	23.194	24.4995
2	4.41	CHLORIDE	Mb	6.685	43.420	49.8497
3	5.16	NITRITE	bMB	1.166	6.163	4.9678
4	6.42	BROMIDE	BMb	1.178	5.477	24.6171
5	7.18	NITRATE	bMB	1.342	5.412	4.9352
6	8.51	PHOSPHATE	BMB	2.566	7.959	24.6537
7	10.29	SULFATE	BMB	4.339	12.545	49.4737
TOTAL:				21.12	104.17	183.00



Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	06.12.06 15:33	Run Time:	13.00

No.	Time min	Peak Name	Type	Area μS*min	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



Sample Preparation Logs

***Digestions
Distillations
Extractions
Leachates***

SOP ID: SAC-WC-0049

Chemist: QS Date: 12/06/06

Analysis/es: Sulfate : SO₄ EPA Test Method ID/s: 3020.0

Project Numbers: G-EK210180 and G-EK220186

Batch ID/s: 6340337

Balance Used: _____ / Last Calibrated: _____ /

Leach Start Time: 9:00 Leach Stop Time: 10:00

Weigh all samples to two decimal places.

Comments:

AIR, PM-10 & TSP

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEETRun Date: 12/01/06
Time: 10:58:17

STL Sacramento

PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)

QC BATCH #: 6335224 INITIALS: SN DATA ENTRY: SN
PREP DATE: 11/28/06 16:18 PREP SN INITIALS SN
COMP DATE: 11/30/06 16:13 ANAL SN DATE 12/1/06
USER: VALMORES

Work Order	Lab Number	Structured	Exp.	Analysis	Sample ID:
		Analysis	Del.	Date	
JJ57V-1-AA	G-6K210180-001	XX S 88	JR 01	Y-D	<u>11/30/06</u> P-0800
JJ57X-1-AA	G-6K210180-002	XX S 88	JR 01	Y-D	<u>11/29/06</u> P-0801
JJ570-1-AA	G-6K210180-003	XX S 88	JR 01	Y-D	<u> </u> P-0802
JJ571-1-AA	G-6K210180-004	XX S 88	JR 01	Y-D	<u> </u> P-0803
JJ8VM-1-AA	G-6K220186-001	XX S 88	JR 01	Y-D	<u> </u> P-0804
JJ8VQ-1-AA	G-6K220186-002	XX S 88	JR 01	Y-D	<u> </u> P-0805
JJ8VR-1-AA	G-6K220186-003	XX S 88	JR 01	Y-D	<u> </u> P-0806
JJ8VT-1-AA	G-6K220186-004	XX S 88	JR 01	Y-D	<u> </u> P-0807

Control Limits

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: 66K210180-1-4 / 66K220186-1-4 Batch #: 6335224

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 12/1/06

ANALYST: SValmores

LEVEL 1 ANALYSIS REVIEW

1. Samples are in good condition.
2. Sample filter number matches the folder or petri ID number.
3. Desiccator temperature and % humidity criteria in control.
4. Balance calibration criteria met.
5. Beginning and ending calibration sample bracket weights are in calibration.
6. Samples reached stable weight.
7. Samples exceeded 5 consecutive final weighings.

	YES	NO	NA
1.	✓		
2.	✓		
3.	✓		
4.	✓		
5.	✓		
6.	✓		
7.			✓

LEVEL 1 DATA REVIEW

1. Benchsheet is complete.
2. QAS or QAPP consulted and followed for client specifics.
3. Data entered in properly.
4. Copy of spreadsheet or logbook raw data entry attached to data package.
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.

✓		
✓		
✓		
✓		
		✓

Completed By & Date: SV 12/1/06

LEVEL 2 REVIEW:

1. Level 1 checklist complete and verified.
2. Deviations, Anomalies, Holding times checked and approved.
3. Reanalysis documented and chemist notified.
4. Client specific criteria met.
5. Data entry checked and released in Quantims.
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).

✓		
✓		
		✓
✓		
✓		

Completed By & Date: SV 12/1/06

Comments: des: IA

Severn Trent Laboratories
AIR TOXICS GRAVIMETRIC ANALYSES

WEST SACRAMENTO

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)			
5 g wt	091906skv0921	5.0000	5.0004	4.9996	5.0000	4.9998	5.0000	-0.0006
JJMHA	pmbc091906-796	4.2214	4.2214	4.2282	4.2284	4.2284	4.2284	0.0070
JJMHE	pmbc091906-797	4.2230	4.2231	4.2321	4.2321	4.2321	4.2321	0.0090
	pmbc091906-798	4.3352	4.3353	4.3353	4.3353	4.3353	4.3353	NC
JJMHF	pmbc091906-799	4.3162	4.3166	4.3314	4.3317	4.3317	4.3317	0.0151
JJ57V	pmbc091906-800	4.3723	4.3726	4.3739	4.3842	4.3842	4.3842	0.0116
	5 g wt	4.9998	5.0001	5.0004	5.0001	5.0001	5.0001	0.0000
	5 g wt	4.9998	5.0001	5.0000	5.0001	5.0001	5.0001	-0.0002

Severn Trent Laboratories
AIR TOXICS GRAVIMETRIC ANALYSES

WEST SACRAMENTO

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)			
	5 g wt	4.9999	4.9997	4.9997	4.9998	4.9998	4.9998	0.0001
JJ57X	bcpm110206-801	110206skv1601	110306skv1225	112806skv1620	112906skv1722	113006skv1612		✓
JJ570	bcpm110206-802	110206skv1602	110306skv1226	112806skv1621	112906skv1722	113006skv1612		✓
JJ571	bcpm110206-803	110206skv1603	110306skv1226	112806skv1622	112906skv1723			✓
JJ8VM	bcpm110206-804	110206skv1603	110306skv1227	112806skv1623	112906skv1724			✓
JJ8VQ	bcpm110206-805	110206skv1603	110306skv1227	112806skv1623	112906skv1724			✓
JJ8VFR	bcpm110206-806	110206skv1604	110306skv1229	112806skv1624	112906skv1724			✓
JJ8VT	bcpm110206-807	110206skv1604	110306skv1229	112806skv1633	112906skv1725			✓
	bcpm110206-808	110206skv1604	110306skv1229					NC
	bcpm110206-809	110206skv1605	110306skv1230					NC
	bcpm110206-810	110206skv1605	110306skv1230					NC
	5 g wt	4.9996	5.0000	4.9996	5.0001	4.9998	4.9998	-0.0002
		110206skv1606	110306skv1231	112806skv1634	112906skv1725	113006skv1613		

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch 6335224

Date 12/12/2006
Time 9:30:44

Method Code:JR Particulate Matter as PM10 "PM10 Hivol" (CFR50-J)
Analyst:Steve Valmores

Work Order	Result	Units	IDL/Dil	Prep - Anal.	Total Solids	PSRL Flag	R/R	Rounded Output	Dil.
JJ57V-1-AA	0.0116	g	0.0001	11/28-11/30/06	.00	N	R	0.0063	0.0001
JJ57X-1-AA	0.0063	g	0.0001	11/28-11/29/06	.00	N	R	0.0003	0.0001
JJ570-1-AA	0.0003	g	0.0001	11/28-11/29/06	.00	N	R	ND	0.0001
JJ571-1-AA	ND	g	0.0001	11/28-11/29/06	.00	N	R	ND	1.00
JJ8VM-1-AA	0.0048	g	0.0001	11/28-11/29/06	.00	N	R	0.0048	0.0001
JJ8VQ-1-AA	0.0046	g	0.0001	11/28-11/29/06	.00	N	R	0.0046	0.0001
JJ8VR-1-AA	0.0154	g	0.0001	11/28-11/29/06	.00	N	R	0.0154	0.0001
JJ8VT-1-AA	0.0003	g	0.0001	11/28-11/29/06	.00	N	R	0.0003	0.0001

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION TOTALS	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0		0	0	0	0	0

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEETRun Date: 12/01/06
Time: 10:59:03

STL Sacramento

PRODUCTION FIGURES - WET CHEM

TOTAL <u>NUMBER</u>	SAMPLE <u>NUMBER</u>	RE-RUN <u>QC</u>	RE-RUN <u>MATRIX</u>	MISC <u>NUMBER</u>	TOTAL <u>HOURS</u>	EXPANDED <u>DELIVERABLE</u>

METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)
 QC BATCH #: 6335223 INITIALS: DATA ENTRY:
 PREP DATE: 11/28/06 16:15 PREP SV INITIALS SV
 COMP DATE: 11/30/06 16:08 ANAL SV DATE 12/1/06
 USER: VALMORES

Work Order	Lab Number	Structured	Exp.	Analysis	Sample ID:
		Analysis	Del.	Date	
JJ573-1-AA	G-6K210180-005	XX S 88	AO 3W	Y-D	11/30/06 000576
JJ8VV-1-AA	G-6K220186-005	XX S 88	AO 3W	Y-D	000578

Control Limits

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G6K210180-5 / G6K220486-5 Batch #: 6335 223

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 12/1/06

ANALYST: S Valmores

LEVEL 1 ANALYSIS REVIEW

1. Samples are in good condition.
2. Sample filter number matches the folder or petri ID number.
3. Desiccator temperature and % humidity criteria in control.
4. Balance calibration criteria met.
5. Beginning and ending calibration sample bracket weights are in calibration.
6. Samples reached stable weight.
7. Samples exceeded 5 consecutive final weighings.

YES	NO	NA
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

LEVEL 1 DATA REVIEW

1. Benchsheet is complete.
2. QAS or QAPP consulted and followed for client specifics.
3. Data entered in properly.
4. Copy of spreadsheet or logbook raw data entry attached to data package.
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Completed By & Date: SV 12/1/06

LEVEL 2 REVIEW:

1. Level 1 checklist complete and verified.
2. Deviations, Anomalies, Holding times checked and approved.
3. Reanalysis documented and chemist notified.
4. Client specific criteria met.
5. Data entry checked and released in Quantims.
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Completed By & Date: SV 12/1/06

Comments: des 1A

Severn Trent Laboratories
AIR TOXICS GRAVIMETRIC ANALYSES

WEST SACRAMENTO

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)			
	5 g	5.0001	5.0000	4.9998	4.9998	4.9998	4.9998	-0.0002
JJ573	wt	110206skv1546	110306skv1213	112806skv1615	112906skv1728	113006skv1606		0.0221
bctsp110206-576		4.3116	4.3119	4.3360	4.3340	4.3340		
bctsp110206-577		110206skv1547	110306skv1214	112806skv1615	112906skv1728	113006skv1607		NC
bctsp110206-578		4.3083	4.3083					0.0336
JJ8V	bctsp110206-	110206skv1547	110306skv1214	4.2971	4.3341	4.3309	4.3307	0.0336
				110306skv1214	112806skv1616	112906skv1729	113006skv1608	
bctsp110206-579		4.3084	4.3085					NC
bctsp110206-580		4.3133	4.3138					NC
bctsp110206-581		110206skv1548	110306skv1215	4.2951	4.2955			NC
bctsp110206-582		4.2959	4.2964					NC
bctsp110206-583		110206skv1549	110306skv1216	4.2910	4.2915			NC
bctsp110206-584		4.2971	4.2971					NC
bctsp110206-585		110206skv1550	110306skv1217	4.2785	4.2790			NC
	5 g	4.9997	5.0000	4.9998	5.0002	5.0001		0.0001
	wt	110206skv1550	110306skv1218	112806skv1617	112906skv1729	113006skv1608		

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch 6335223

Date 12/12/2006
Time 9:41:23

Method Code:AO Particulates in Air, Suspended "TSP HiVol" (APP B)
Analyst:Steve Valmores

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Result	Rounded Output	Dil.
JJ573-T-AA	0.0221	g	0.0001	11/28-11/30/06	.00	N	0.0221	1.00
JJ8VV-1-AA	0.0336	g	0.0001	11/28-11/30/06	.00	N	0.0336	0.0001

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION TOTALS	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0